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THE NEW CHURCH

POPE LEO XIV CITES AI IN PAPAL NAME CHOICE, EMBRACES TECH

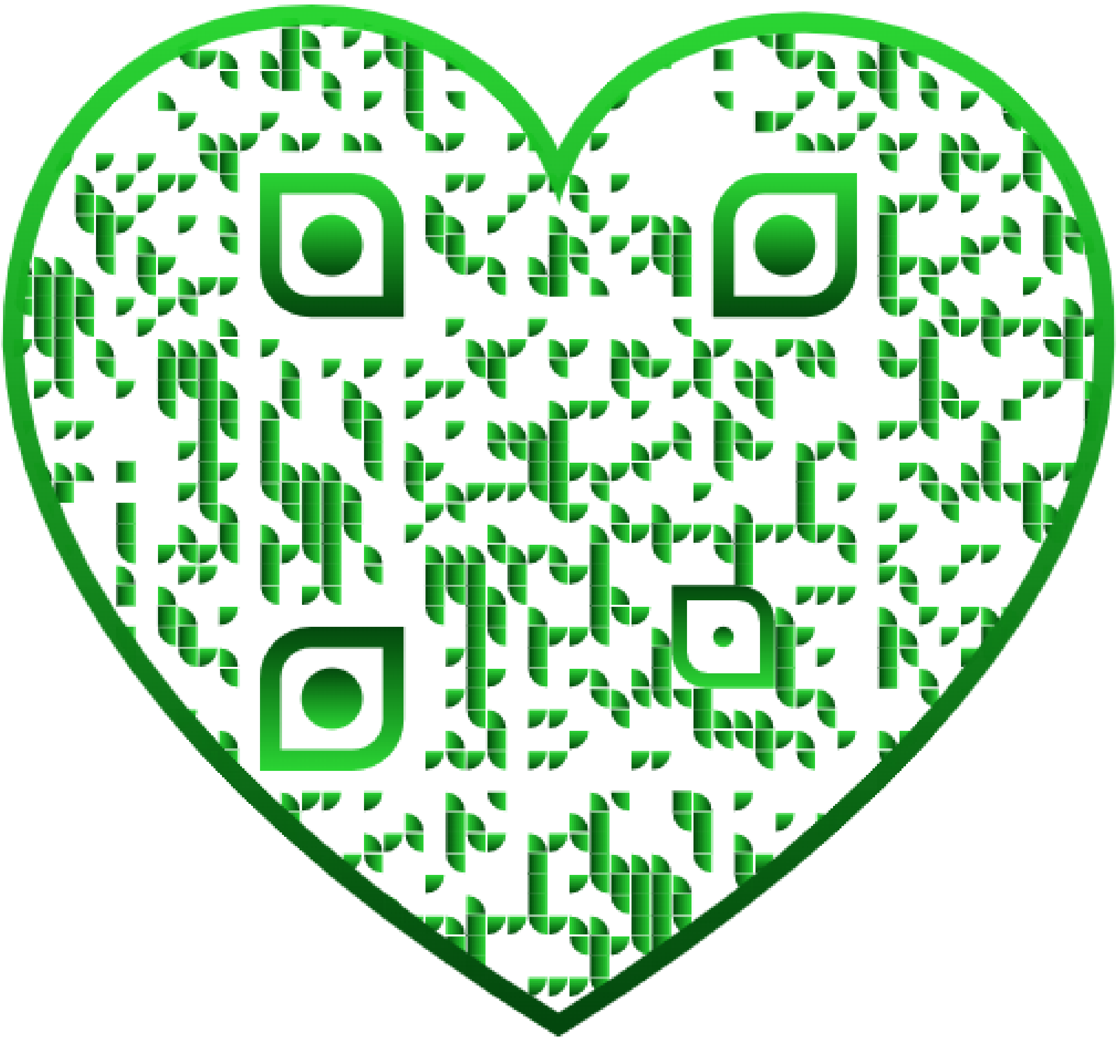
BRAIN CONTROL

ACCESSIBILITY FEATURES

APPLE UNVEILS NEW TECH FOR IPHONES AND IPADS

AI Factories

AN INEVITABLE REVOLUTION IN PRECISION MANUFACTURING



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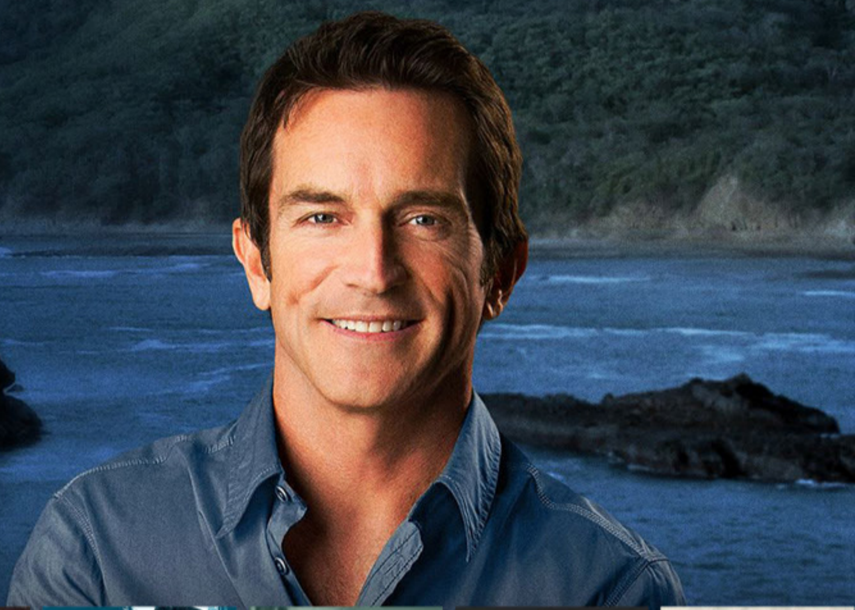

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POPE LEO XIV CITES AI IN PAPAL NAME CHOICE, EMBRACES TECHNOLOGY

When white smoke billowed from the Sistine Chapel's chimney, it signaled a new era for the Catholic Church: the election of Pope Leo XIV, the first American pontiff, who stepped onto St. Peter's balcony with a message of peace and a nod to the challenges of our time. This week, in his first formal address to the College of Cardinals, the 69-year-old Chicago-born Robert Prevost revealed that artificial intelligence, among other modern issues, inspired his choice of the papal name Leo, drawing parallels to Pope Leo XIII's response to the Industrial Revolution in the late 19th century. For the 1.4 billion Catholics worldwide, tech enthusiasts, and global observers, his remarks highlight a Church grappling with AI's impact on human dignity, a theme he's already weaving into his pontificate.

Adding a striking symbol of technology's role in his leadership, Pope Leo XIV has been spotted wearing an Apple Watch, a subtle but powerful sign of his openness to digital tools.

The device, used for notifications and communication, underscores his intent to engage with the modern world while guiding the Church through the complexities of AI and other advancements.

INSPIRATION BEHIND THE PAPAL NAME

In his address to 133 cardinals in the Vatican's New Synod Hall, Pope Leo XIV explained that he chose the name Leo to echo Pope Leo XIII, who served from 1878 to 1903 and tackled the social upheavals of the Industrial Revolution. Leo XIII's 1891 encyclical, Rerum Novarum, laid the groundwork for modern

Catholic social teaching, addressing workers' rights and the excesses of capitalism and socialism. The new pontiff sees AI as a modern parallel, a "new industrial revolution" that challenges human dignity through job displacement and ethical dilemmas, requiring the Church's moral leadership. He noted that AI's rapid rise, transforming industries and daily life, demands a response rooted in the Gospel's call to protect the vulnerable.

The choice reflects Leo's view that the Church must engage with technology's opportunities and risks, much as his namesake navigated the mechanization of the 19th century. He emphasized continuing the reforms of Pope Francis, who warned in 2023 that AI must not foster violence or discrimination, setting a precedent for addressing digital ethics. Sentiment

AI

on X underscores the significance, with users noting AI's influence on his name as a bold acknowledgment of today's challenges.

APPLE WATCH AS A SYMBOL OF TECH ADOPTION

Pope Leo XIV's use of an Apple Watch, observed during his first public appearances, has sparked chatter about his embrace of technology. The device, likely a Series 10 or Ultra 2 model, is used for notifications, scheduling, and possibly fitness tracking, aligning with his active lifestyle as a former missionary in Peru.

Unlike traditional papal attire, the Apple Watch stands out as a modern accessory, signaling his willingness to integrate digital tools into his role. It's a practical choice—managing a pontificate with 52 million social media followers across nine languages requires staying connected, and the watch's haptic alerts keep him informed without disrupting sacred duties.

This tech adoption isn't new for popes; Francis used social media to reach millions, and Benedict XVI sent the first papal tweet in 2012. Leo's Apple Watch, however, is a personal statement, reflecting his comfort with devices shaping daily life for 2.2 billion Apple users worldwide. It complements his AI focus, showing a leader unafraid to engage with tools that define the 21st century, while grounding their use in the Church's mission of service and dialogue.

AI'S IMPACT ON THE CHURCH'S MISSION

The Pope's reference to AI as a reason for his name choice points to its profound implications for the Church's 1.4 billion adherents. AI's ability to

automate tasks, from factory work to customer service, threatens jobs, with 41% of global firms expecting workforce reductions over five years, according to a 2024 World Economic Forum survey. Leo sees parallels to Leo XIII's era, where mechanization displaced workers, prompting Rerum Novarum's call for fair wages and labor rights. Today, AI's ethical risks—bias in algorithms, privacy breaches, and misinformation—demand similar guidance, as the Church seeks to protect human dignity in a digital age.

Leo's address highlighted the need to respond to AI's challenges while embracing its potential, such as improving healthcare or education access. He invoked Francis' 2023 World Day of Peace message, which urged AI development to respect human rights, a stance Leo plans to advance. The Vatican's engagement with tech, including hosting AI ethics summits since 2020, sets the stage for Leo's leadership, with X posts noting his call for a Church that meets AI head-on.

TECHNOLOGY AND THE VATICAN'S DIGITAL PRESENCE

The Apple Watch on Leo's wrist is more than a gadget—it's a symbol of the Vatican's evolving digital presence. The @Pontifex accounts, with 52 million followers across platforms like Instagram and X, have been active since Benedict XVI's first tweet in 2012. Leo's first Instagram post, "Peace be with you all!" in nine languages, reached millions, continuing Francis' tradition of 50,000 posts. The watch, likely syncing with these platforms, helps Leo manage this global reach, from scheduling posts to monitoring feedback, a necessity for a pontiff addressing a diverse flock.

The Vatican's tech adoption extends beyond wearables, with its website, vatican.va, archiving papal content and offering real-time updates. Leo's use of an Apple Watch aligns with this digital strategy, showing a Church that meets people where they are—online and connected. It's a nod to the 1.4 billion Catholics, many using smartphones, and a signal that Leo will leverage technology to foster dialogue, as seen in his call for peace in Ukraine and Gaza.

ETHICAL AND SOCIAL IMPLICATIONS OF AI

AI's rapid growth—powering everything from chatbots to self-driving cars—raises questions the Church can't ignore. Algorithms can amplify biases, like facial recognition misidentifying minorities, or erode privacy through data harvesting, issues Francis flagged in 2023. Leo's name choice ties these concerns to Leo XIII's critique of unchecked capitalism, suggesting AI needs moral guardrails to serve humanity. With global AI spending hitting $200 billion in 2024, the Church's role as an ethical voice is crucial, especially for the 41% of workers at risk of automation-related job loss.

Leo's vision, rooted in the Second Vatican Council's call for engagement with modernity, sees AI as a tool for good if guided by faith. He cited Francis' reforms, which emphasized inclusivity, as a model for addressing AI's impact on the "least and rejected." The Vatican's AI ethics initiatives, like the 2020 Rome Call for AI Ethics, provide a framework, and Leo's leadership will likely expand these efforts, as X users speculate about his tech-forward papacy.

FUTURE OF THE CHURCH IN A TECH-DRIVEN WORLD

Leo's papacy, barely a week old, is already shaping up as one that confronts technology head-on. His Apple Watch and AI-inspired name choice suggest a leader ready to blend tradition with innovation, guiding the Church through a digital revolution. The watch, a practical tool for a 69-year-old pontiff managing a global institution, reflects his approach: use tech to serve, not dominate. As he plans to move into the Apostolic Palace, unlike Francis' modest guesthouse choice, Leo signals a return to traditional symbols while embracing modern tools, a balance that could define his tenure.

Leo's early actions—calling for peace, engaging journalists, and using tech—show a pontiff ready to lead with relevance. His focus on AI's ethical challenges, inspired by Leo XIII's social teachings, positions the Vatican as a moral compass, while his digital presence ensures the Gospel reaches a connected flock.

As the first American pope, Leo's tech-savvy start hints at a papacy that bridges faith and the future, one thought-driven step at a time.

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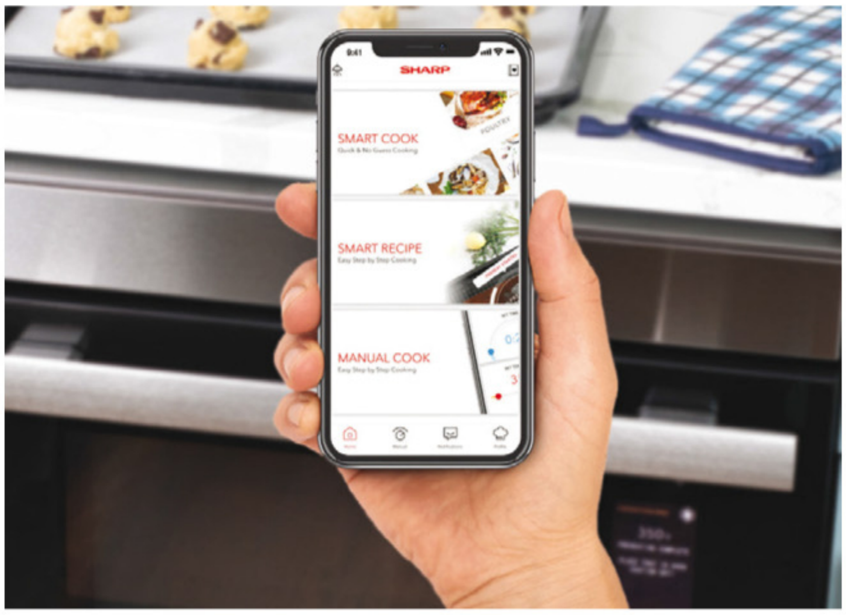

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IOS 19 TO ENHANCE IPHONE BATTERY LIFE WITH AI-POWERED MANAGEMENT

Pro and iPhone 16 Pro M

Apple has revealed plans to introduce an AI-powered battery management feature in iOS 19, set for release in September 2025, leveraging Apple Intelligence to optimize iPhone battery life, as announced this week.

The feature will analyze individual user habits to adjust power consumption, reducing energy draw for specific apps and functions, aiming to extend daily battery usage.

For iPhone users, developers, and the tech industry, this update addresses longstanding battery life concerns, particularly for the upcoming iPhone 17 Air, which will feature a thinner design with a smaller battery capacity.

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TAPTIC ENGINE

The system will use battery usage data collected from millions of iPhones to predict and manage power needs, ensuring efficient energy allocation.

A new lock screen indicator will display estimated charging times, enhancing user awareness of battery status.

The feature, expected to be unveiled at WWDC in June 2025, will be available on all Apple Intelligence-compatible iPhones, including the iPhone 15 Pro, iPhone 15 Pro Max, and iPhone 16 series, supporting Apple's 2.2 billion active devices with advanced AI capabilities.

AI-DRIVEN BATTERY MANAGEMENT SYSTEM

The iOS 19 feature will employ Apple Intelligence to monitor how users interact with their iPhones, analyzing app usage patterns to determine when to reduce power consumption for specific applications or services. For example, it may lower the energy draw of background apps like social media during periods of low activity.

The system uses predictive algorithms trained on aggregated battery data from iPhone users, enabling precise energy-saving adjustments without compromising performance, as detailed in company statements.

This approach builds on Apple's existing Optimized Battery Charging, introduced in iOS 13, which limits charging to 80% to preserve battery health, but focuses on daily usage rather than charging cycles.

LOCK SCREEN CHARGING INDICATOR

A new lock screen feature will show an estimated time to reach a full charge, providing users with real-time insights into their iPhone’s battery status.

The indicator will display when the device is expected to hit 100% or other user-selected charge levels, such as 80%, helping users plan charging sessions, especially during short windows.

This addition complements the Battery Intelligence framework, enhancing visibility into charging progress, as outlined in Apple’s plans.

The feature aims to improve user experience by offering clear, actionable information, addressing common complaints about unpredictable charging times on iPhones.

IPHONE 17 AIR AND BATTERY CHALLENGES

The AI-powered battery management system is designed to support the iPhone 17 Air, a slimmer model expected to launch in fall 2025 alongside iOS 19, which will have a smaller battery due to its thin design.

The reduced battery capacity, estimated to be 10% less than the iPhone 17 Pro’s, risks shorter daily usage compared to other models, with projections suggesting up to 20% less battery life under heavy use.

The feature will optimize power allocation to mitigate this limitation, ensuring comparable performance across the iPhone 17 lineup, as indicated by supply chain insights.

Monday, September 30
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Reduce Interruptions

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Weather

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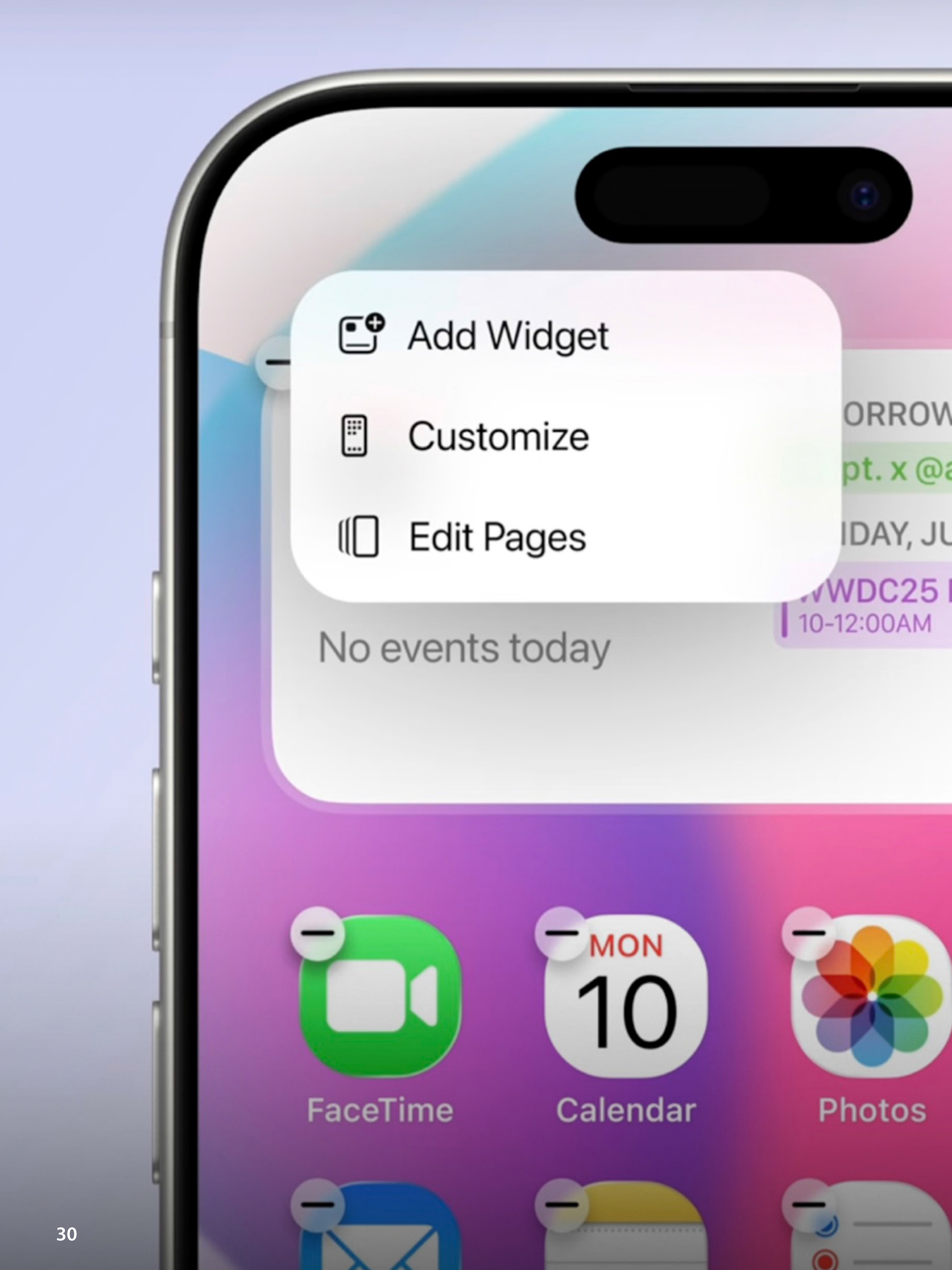
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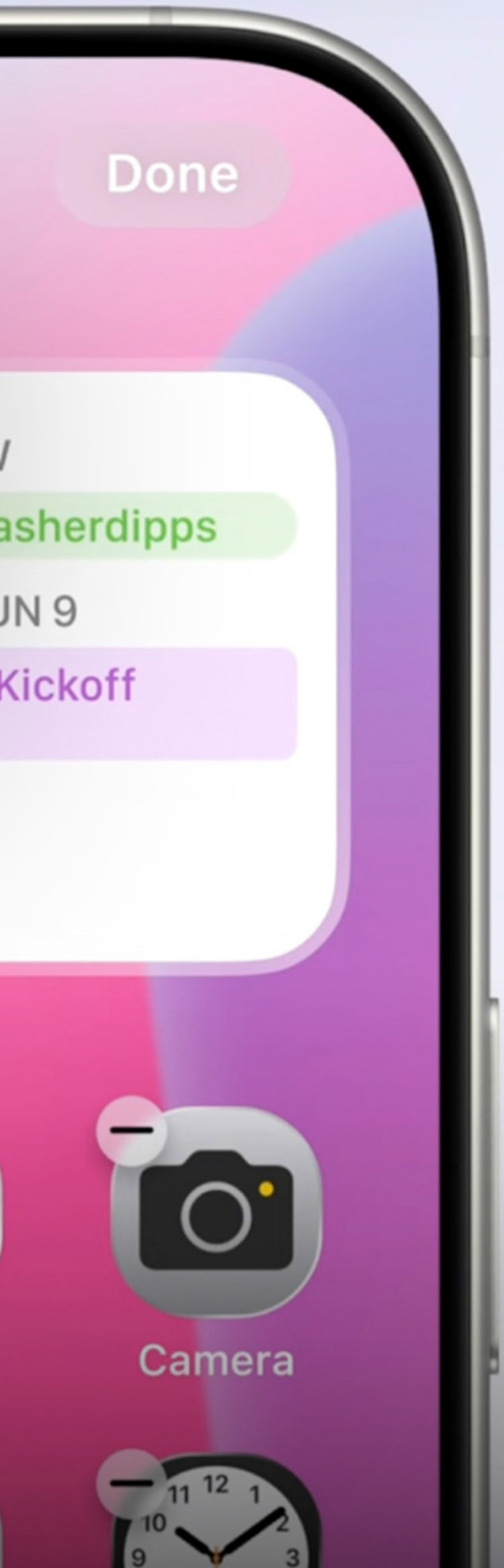

All Apple Intelligence-compatible iPhones, including the iPhone 15 Pro and iPhone 16 series, will benefit from the update, extending its impact beyond the iPhone 17 Air.

APPLE INTELLIGENCE DATA UTILIZATION

The battery management system relies on anonymized battery usage data collected from millions of iPhones, processed through Apple Intelligence to identify trends and predict power needs. This data-driven approach enables the AI to make real-time decisions, such as reducing screen refresh rates or throttling background processes during low-priority tasks.

The system maintains user privacy through on-device processing and Apple's Private Cloud Compute, ensuring no personal data is exposed, as emphasized in company documentation.

This marks an expansion of Apple Intelligence's role, previously focused on features like Writing Tools and Siri enhancements, into hardware optimization for the first time.

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COMPETITIVE AND INDUSTRY CONTEXT

Apple's initiative responds to competition from AI-driven features in rival ecosystems, such as Google's Gemini, which optimizes device performance in Android 15, and Samsung's One UI 7, which includes battery-saving AI modes. The iPhone 17 Air's design challenges mirror those of competitors like the Samsung Galaxy S25 Edge, where thinner profiles necessitate innovative power management.

Apple's $5 billion investment in AI infrastructure, including server chips codenamed Baltra, supports this feature's cloud-based processing needs, positioning the company against Nvidia and Broadcom in AI hardware.

The update aligns with broader industry trends, as seen in Perplexity AI's $14 billion valuation raise in May 2025, reflecting the growing importance of AI in consumer technology, particularly for enhancing device efficiency.

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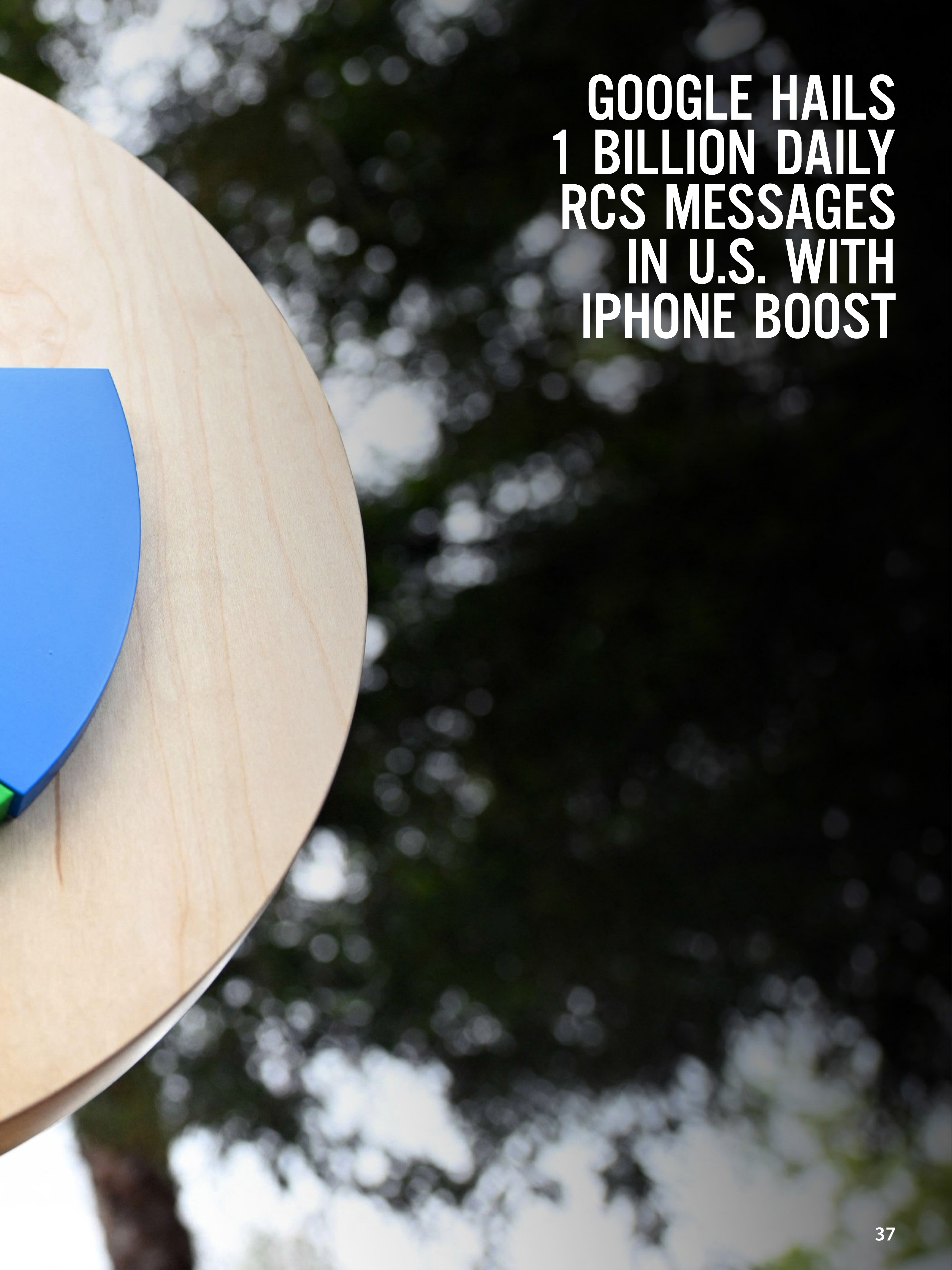


GOOGLE HAILS 1 BILLION DAILY RCS MESSAGES IN U.S. WITH IPHONE BOOST

Google revealed this week that Americans are sending over 1 billion Rich Communication Services (RCS) messages every day, a massive leap fueled by Apple's decision to embrace RCS in iOS 18 last September.

This milestone, based on a 28-day average, shows how RCS has transformed texting between iPhones and Android phones, bringing crisp photos, group chat flair, and typing bubbles to conversations that used to be stuck in SMS limbo.

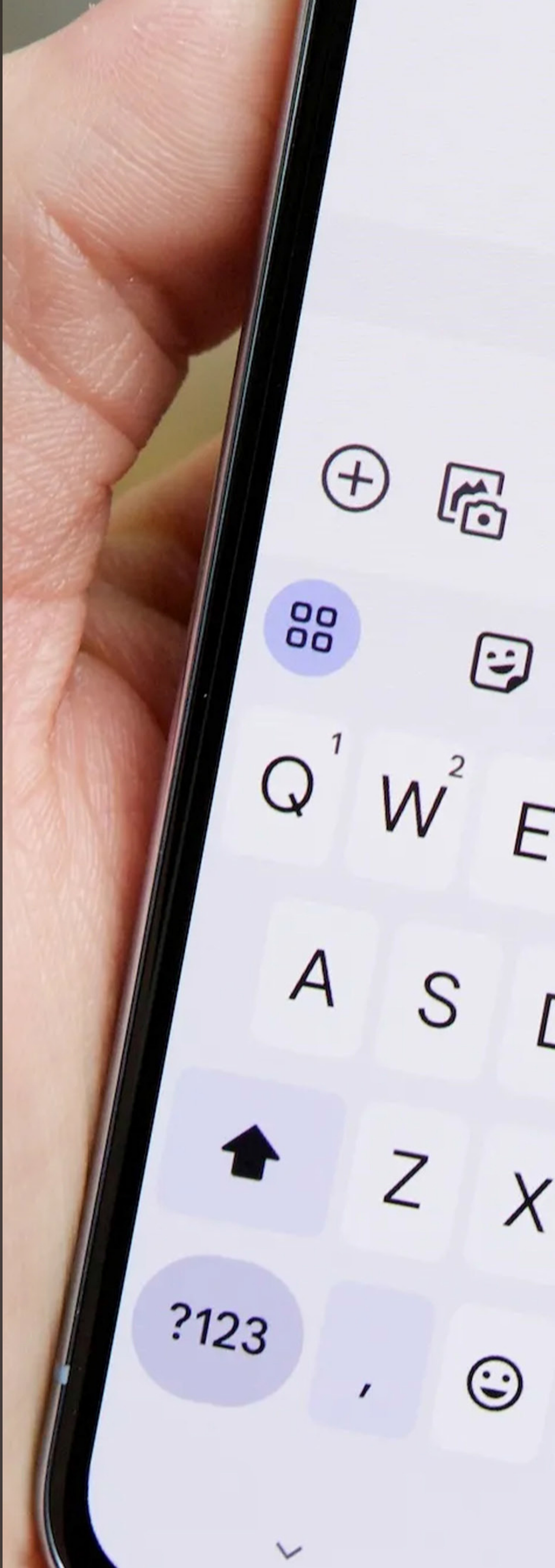
For anyone with a smartphone, app makers, or folks in the telecom world, it's a sign that RCS is becoming the go-to for cross-platform chats, making those blurry green-bubble texts a thing of the past.

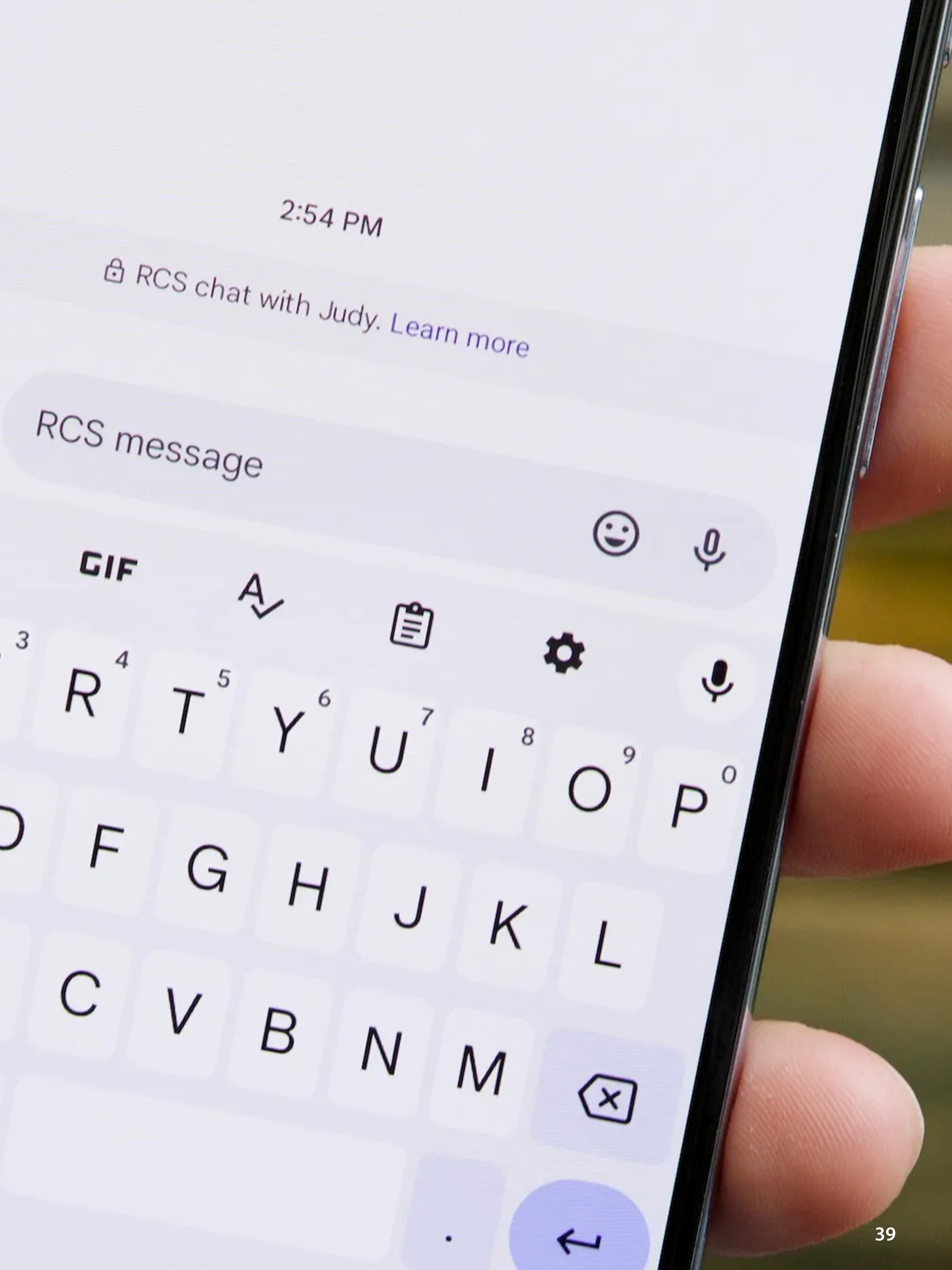
Apple's move to support RCS, after years of nudging from Google, has supercharged its adoption, especially since iOS 18 rolled out. With Google Messages already boasting over 1 billion monthly active users worldwide, and apps like TikTok hitting 170 million users in the U.S., RCS is riding a wave of momentum.

It's not quite at the level of the 6 billion SMS and MMS messages sent daily in the U.S., but it's closing the gap fast. The catch? Not all carriers are fully on board, and encryption gaps linger, but the billion-a-day mark proves RCS is reshaping how we text.

RCS MESSAGE VOLUME SOARS

Over 1 billion RCS messages zip through U.S. phones each day, a figure Google pegged from a 28-day average in early 2025. That's a huge jump from the 1 billion monthly active users Google Messages reported back in November 2023.

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RCS chat with Judy. Learn more
RCS message
GIF

Apple Intelligence

The surge ties directly to Apple's RCS support in iOS 18, which lets iPhone users send richer texts to Android folks—think high-quality videos and group chats that actually work. Since Apple jumped in, RCS messages have spiked by 80%, showing how fast users are adopting the standard.

The number doesn't quite match the 6 billion daily SMS and MMS messages still sent in the U.S., but it's a big step for a standard that's only recently gone mainstream, especially with major carriers like AT&T and Verizon rolling out support, though some smaller ones are still catching up.

APPLE'S RCS ROLLOUT IN IOS 18

Apple finally added RCS to its Messages app with iOS 18 in September 2024, ending years of back-and-forth with Google, who'd been pushing for it since 2019. The change came after pressure from the European Union's Digital Markets Act and China's 2024 mandate for 5G phones to support RCS.

Now, iPhone users can send sharp images, see typing indicators, and manage group chats with Android users without the old SMS/MMS headaches.

RCS messages still show up as green bubbles, keeping iMessage's blue for Apple-to-Apple chats, but the experience is night-and-day better.

The rollout has driven RCS's global reach to over 2.5 billion monthly active users in 2024, backed by 90 carriers across 60 countries, though some U.S. carriers haven't fully enabled it for iPhones yet.

WHAT RCS BRINGS TO THE TABLE

RCS, kicked off by the GSM Association in 2007, is like SMS on steroids, packing in high-res media, file sharing, and Wi-Fi texting. You get typing bubbles to know when someone's replying and read receipts to confirm messages landed, stuff WhatsApp users have enjoyed forever.

The Universal Profile, rolled out since 2017, makes sure it works across devices, and Google's Jibe platform lets phones use RCS even if carriers drag their feet. That's helped push the U.S. to 1 billion daily messages.

One hitch: RCS on iOS doesn't have end-to-end encryption yet, unlike Google Messages, which has used the Signal Protocol for secure chats since 2021. The GSM Association is working on a fix, aiming for cross-platform encryption by 2026.

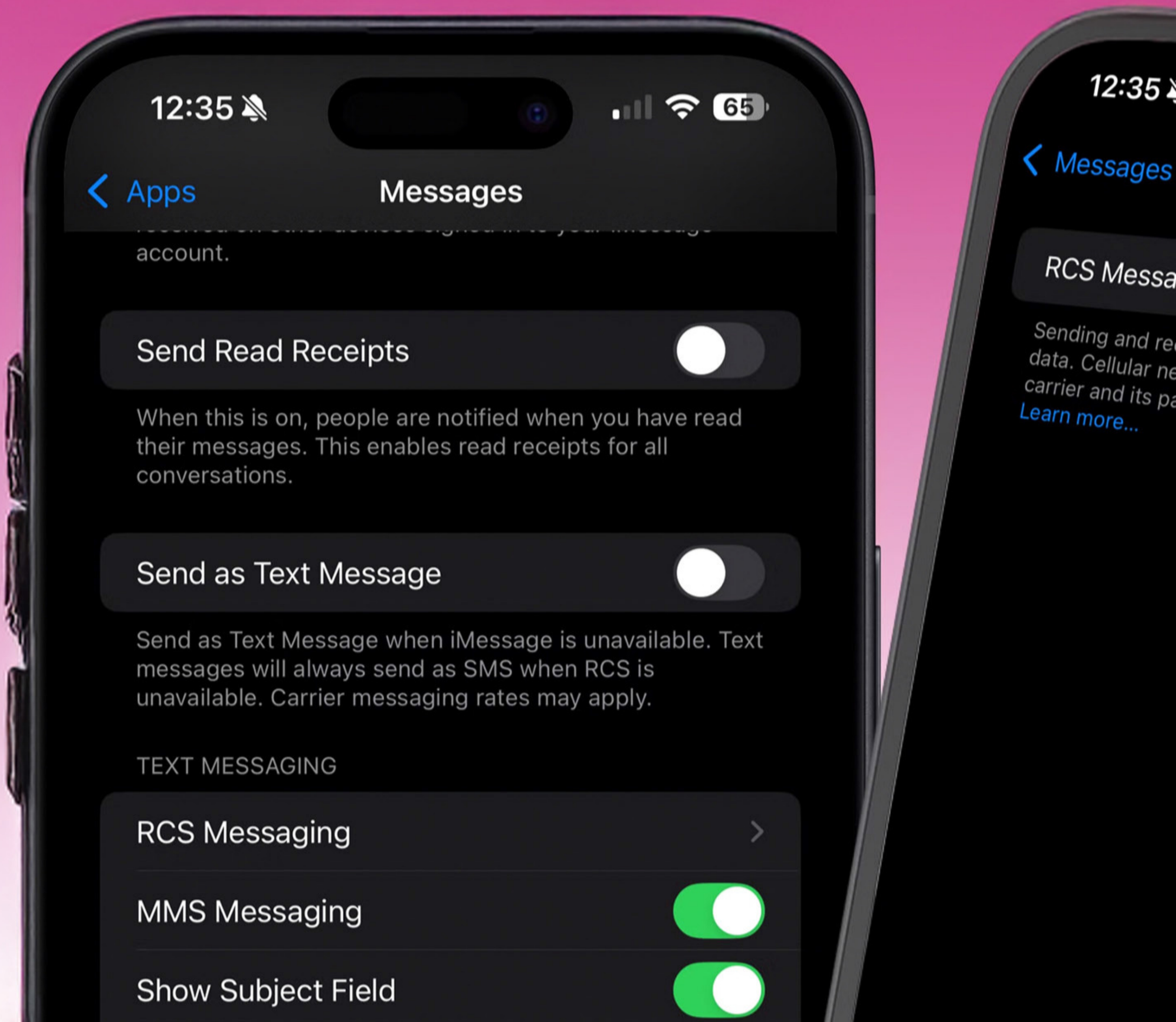
GOOGLE'S PUSH FOR RCS ADOPTION

Google's been the loudest cheerleader for RCS since 2016, baking it into Google Messages and calling out Apple publicly to join the party.

That persistence paid off with iOS 18, and now the U.S. is seeing 1 billion daily RCS messages, a testament to Google's Jibe platform and carrier partnerships.

The company's Android Show at Google I/O 2025 spotlighted this milestone, showing off RCS's role in smoothing out iPhone-Android chats, even if they didn't share exact user numbers or carrier stats.

Google's also weaving RCS into its broader AI push, with tools like Gemini powering features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65
Apps
Messages

account.

Send Read Receipts

When this is on, people are notified when you have read their messages. This enables read receipts for all conversations.

Send as Text Message

Send as Text Message when iMessage is unavailable. Text messages will always send as SMS when RCS is unavailable. Carrier messaging rates may apply.

TEXT MESSAGING

RCS Messaging

MMS Messaging

Show Subject Field

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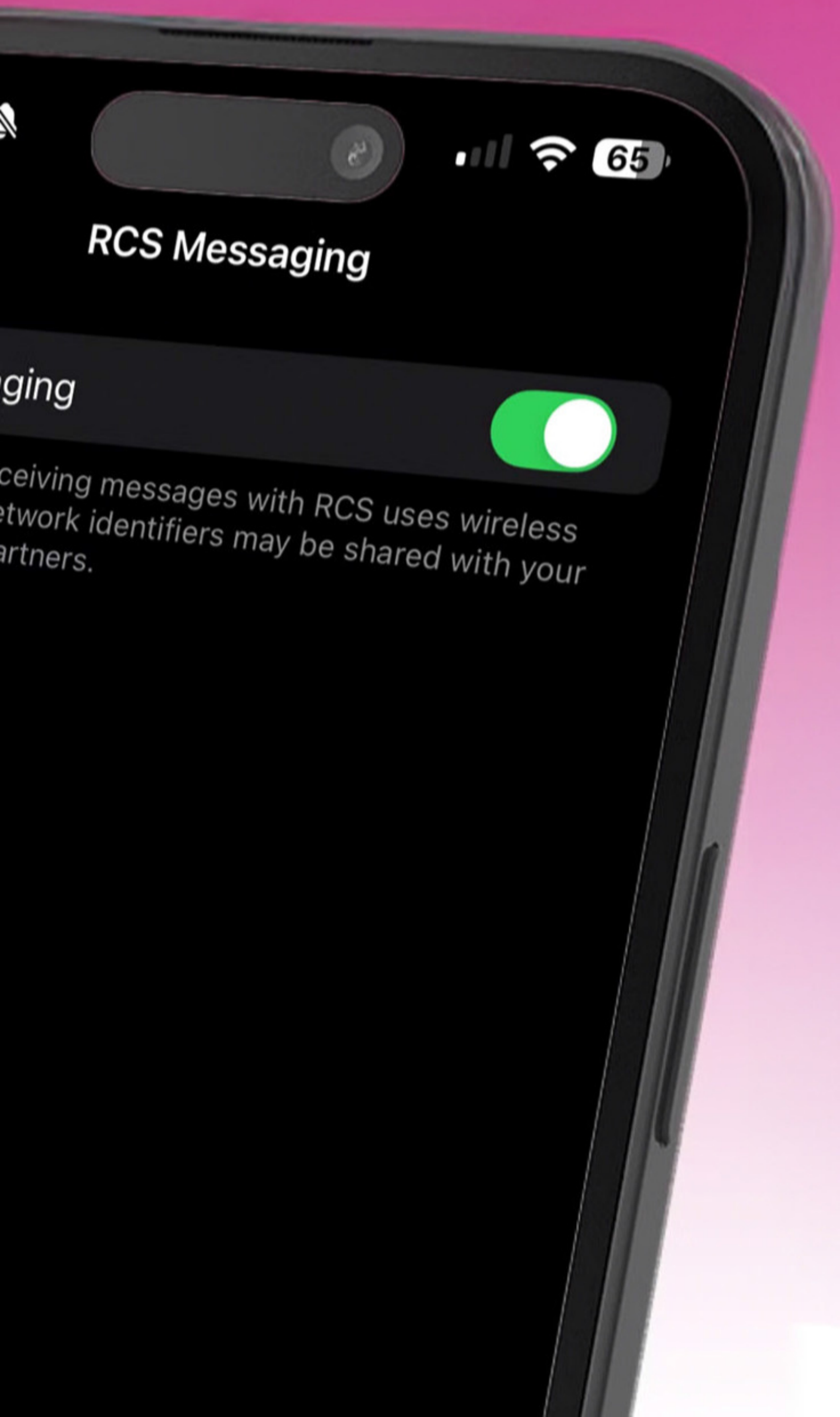
in Messages, though encryption and carrier gaps remain hurdles to full adoption.

CARRIER SUPPORT AND ENCRYPTION CHALLENGES

Not every U.S. carrier is fully onboard with RCS for iPhones, with some like Google Fi only joining in March 2025. That means texts sometimes fall back to SMS/MMS, which lacks the bells and whistles.

The bigger issue is encryption—iPhone-to-Android RCS chats aren't end-to-end encrypted, unlike iMessage or Google Messages' one-on-one talks. Google's working on a Messaging Layer Security (MLS) standard, announced in July 2023, but it's not expected until 2026.

With apps like WhatsApp hitting 2 billion users globally and TikTok at 170 million in the U.S., RCS's 1 billion daily messages show it's a contender, but carriers and encryption need to catch up to keep the momentum going.



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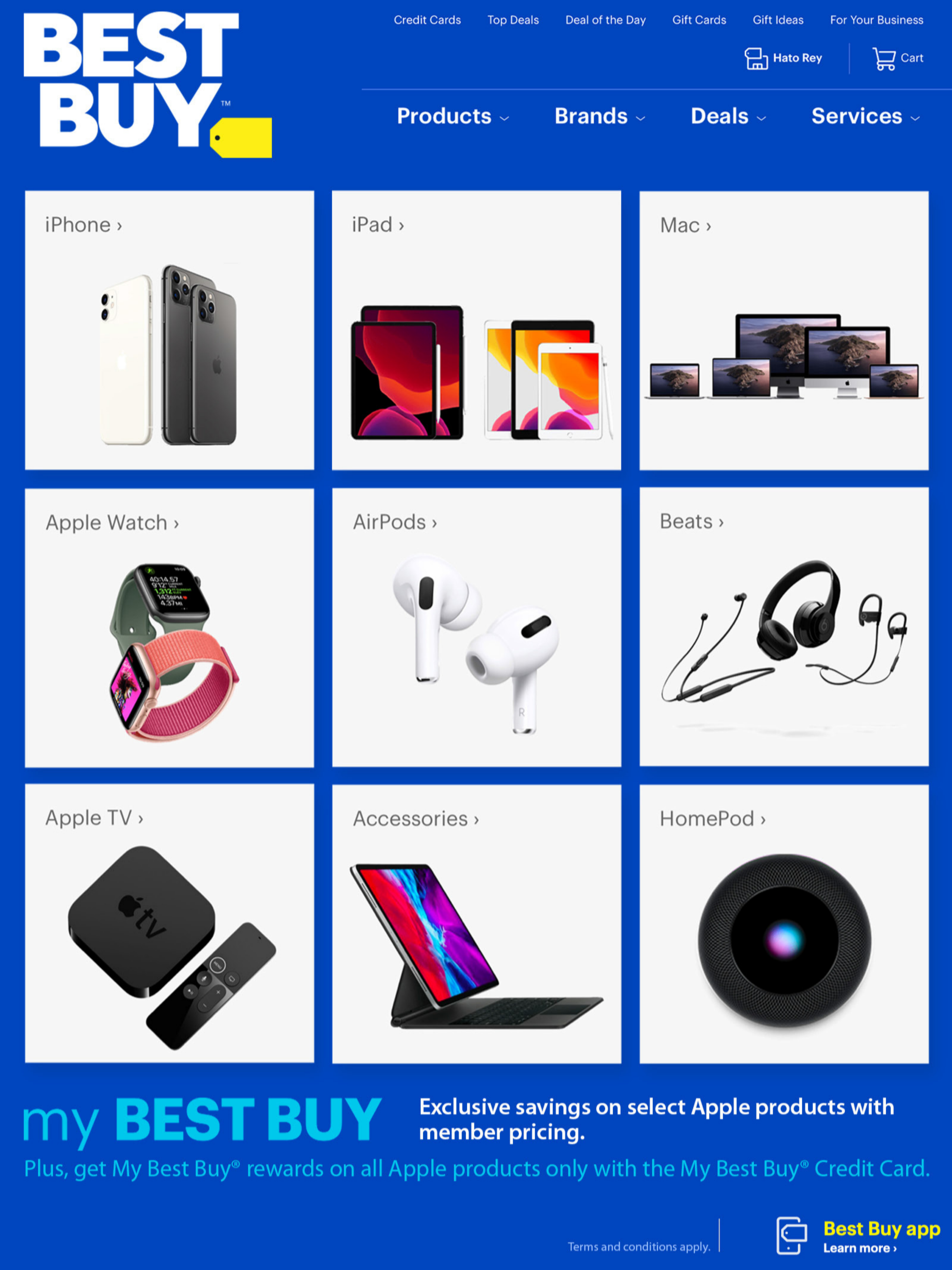
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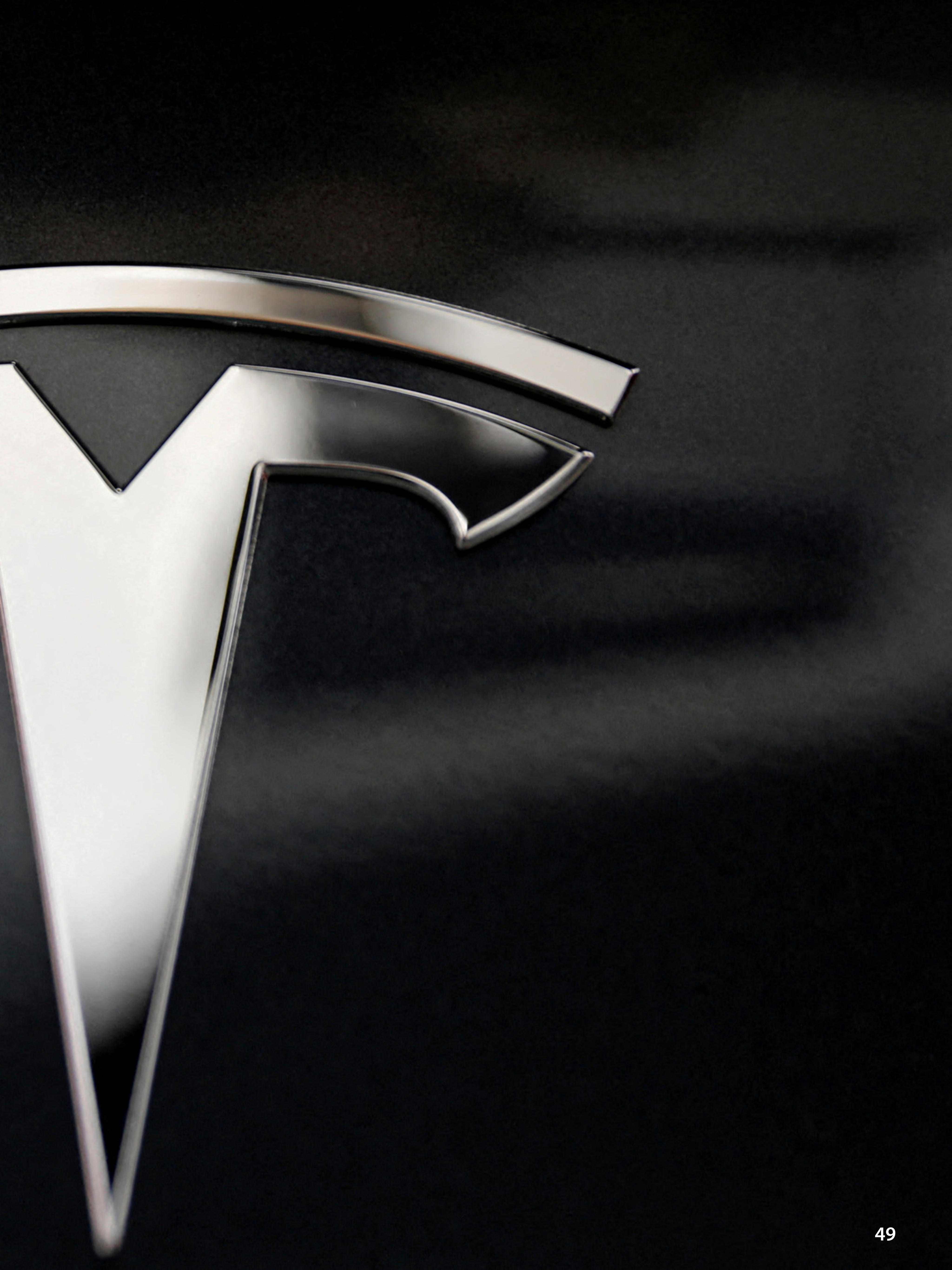
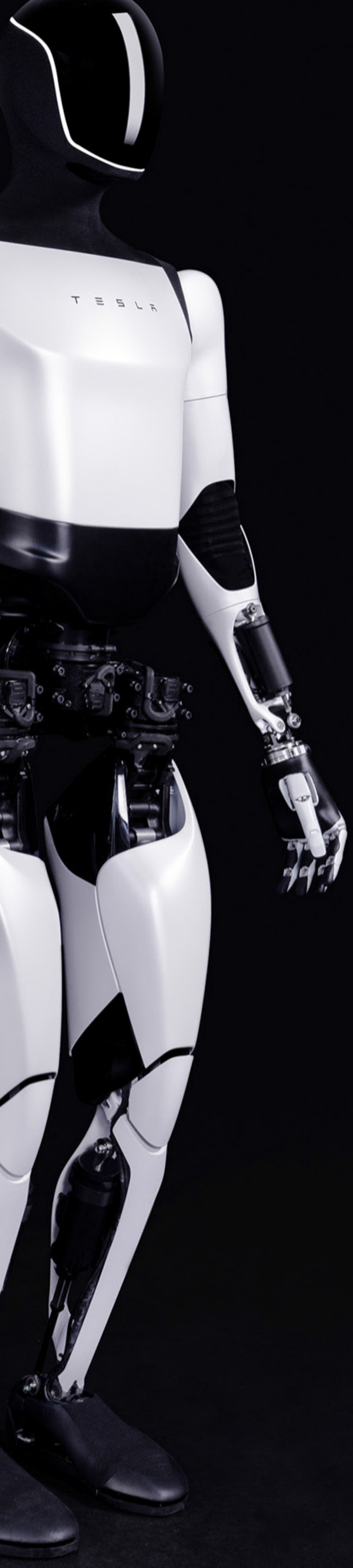
TESLA'S OPTIMUS ROBOT MASTERS DANCE, ADVANCING AI AND BALANCE

Picture a robot hitting a dance floor, swinging its arms and stepping to a beat with moves so smooth you'd swear it's human. That's exactly what Tesla's Optimus humanoid robot pulled off in a video shared last week by CEO Elon Musk, lighting up social media with its slick choreography. The clip, dropped early Wednesday morning, shows Optimus grooving without cables holding it up, a massive leap from its early days when it could barely take a step. For robotics fans, Tesla investors, and tech enthusiasts, this isn't just a cool trick—it's a bold statement of how far Optimus has come, blending artificial intelligence





with balance that's starting to rival the real thing in a $4.7 trillion market for humanoid robots.

The dance, crafted in a virtual world using smart AI, proves Optimus can move freely, with just a safety cable in the wings to catch any stumbles. Its balance has grown by leaps and bounds, and Tesla's approach—building skills step-by-step, much like General Dynamics' robot-building playbook—shows a clear path from simple tasks to big dreams like factory work or helping around the house. Some call it a flashy stunt, but with Tesla planning to churn out thousands of these robots in 2025, Optimus is dancing toward a future where it could change how we work and live.

DANCE VIDEO AND AI TRAINING INNOVATION

Musk's video, posted on X, captures Optimus swaying to a catchy rhythm, pulling off arm waves and leg steps like it's been practicing for a talent show. The clip, racking up millions of views, had folks questioning if it was real or some fancy animation, but Musk insisted it's "real, real-time," with no human steering the robot. Tesla's AI chatbot confirmed this, pointing to a group dance Optimus performed at an event last fall, proving the video's legitimacy. The routine was built using reinforcement learning, where the robot runs through thousands of dance attempts in a virtual world, learning from each misstep to perfect its flow.

Milan Kovac, who heads Optimus development, explained that the entire dance was trained in simulation, using a sim-to-real pipeline that turns digital practice into real-world action. It's like letting the robot crash and burn in a virtual studio until it gets the steps right, saving wear and tear on actual hardware.

This method, refined over months, coordinates 28 actuators for fluid motion, a big jump from 2023 when Optimus was just sorting blocks. The dance isn't just for show—it tests the robot's knack for handling complex, dynamic tasks, a must for jobs like assembling car parts or dodging clutter in a warehouse.

CABLE-FREE BALANCE AND TECHNICAL STRIDES

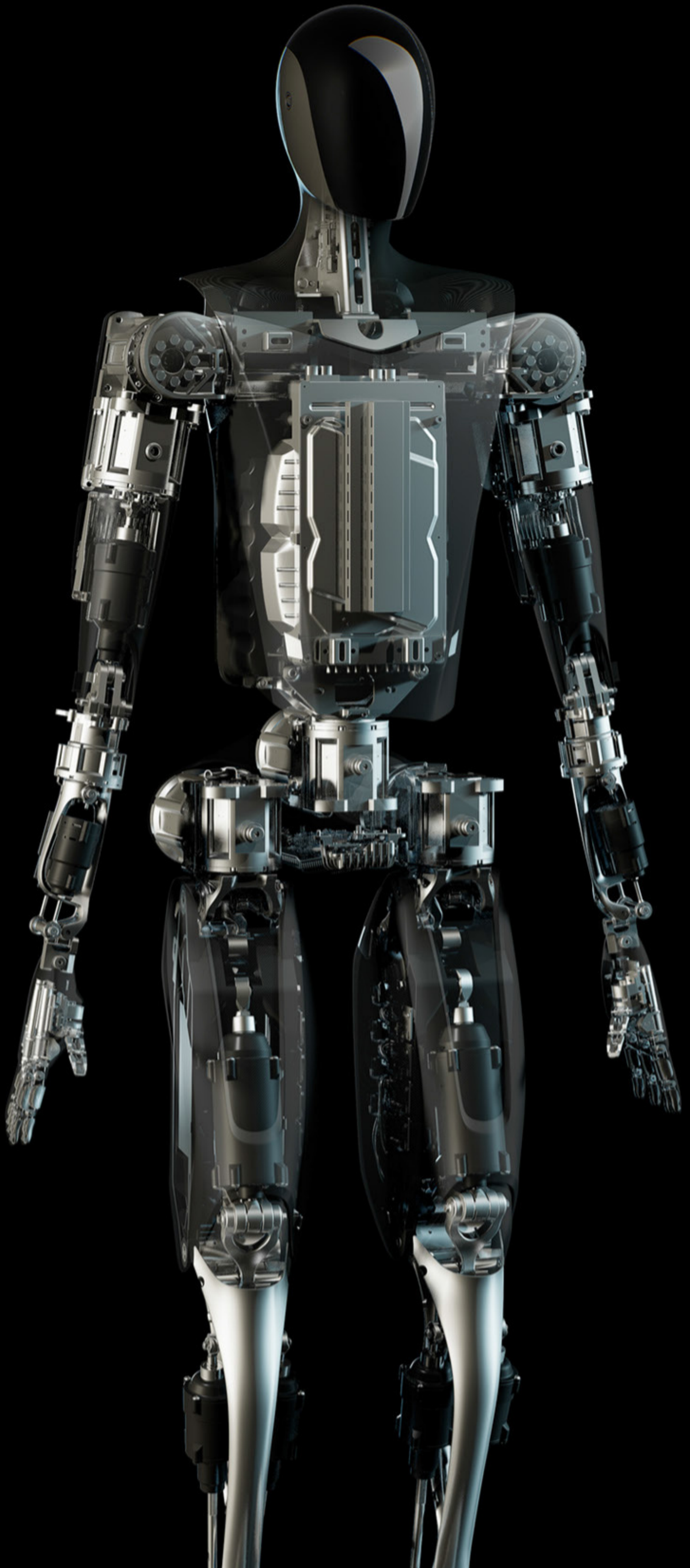
Optimus has ditched the cables that once kept it upright, a major milestone shown in last week's video, where it dances freely with only a safety cable in the background as a backup.

Musk clarified the cable's just there to catch any falls, not to prop it up, marking a huge improvement since last spring, when Optimus started walking with more confidence.

At 5 feet 8 inches tall and 125 pounds, the robot uses 28 actuators powered by rare earth magnets, with motors tweaking each joint in real-time to stay balanced. Social media buzzed about details like its neck tilt, which looked almost too lifelike for a machine.

The robot's neural network, built on Tesla's AI expertise, syncs these joints with pinpoint accuracy, shifting its weight like a dancer to avoid tipping over.

Compared to its 2021 debut, where it could only manage a shaky wave, this is a massive leap. The AI chatbot noted that while Optimus isn't



completely fall-proof, its balance is catching up to Boston Dynamics' Atlas, which has been doing flips for years.

This untethered dance proves Optimus can tackle dynamic movements, setting the stage for real-world tasks like fetching tools or navigating busy spaces.

STAGED DEVELOPMENT INSPIRED BY GENERAL DYNAMICS

General Dynamics, a giant in defense robotics, offers a blueprint for how robots like Optimus grow. Since the 1990s, they've built machines like the PackBot, with over 7,000 units deployed across 40 countries by 2025 for jobs like bomb disposal. Their approach, detailed in industry reports from last year, started with basic skills—rolling over rough terrain—before adding complex tasks like autonomous scouting. Each step was carefully tested to ensure reliability, a method that's kept their robots trusted in high-stakes missions.

Optimus is on a similar track, starting with wobbly steps in 2021, moving to block-sorting in 2023, and now pulling off a dance routine in 2025. The dance tests balance and coordination, skills needed for practical jobs like assembling vehicles or running errands.

Unlike General Dynamics' specialized robots, Optimus aims to be a do-it-all helper, from factory floors to living rooms, as Musk envisions. Tesla's reinforcement learning speeds up this staged progress, but the robot's broad goals make it a tougher challenge to perfect compared to General Dynamics' focused machines.

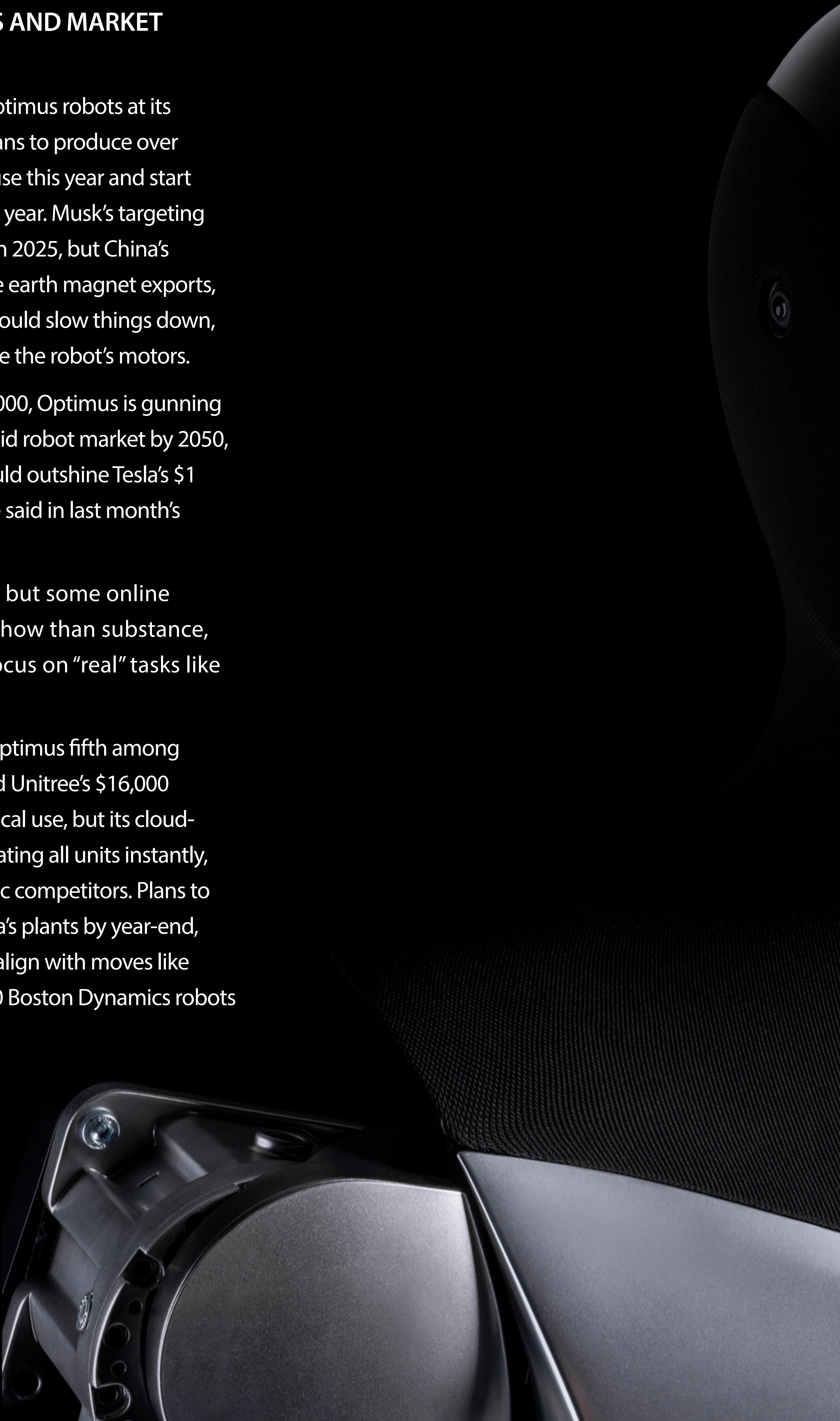
PRODUCTION PLANS AND MARKET OUTLOOK

Tesla's already making Optimus robots at its Fremont Factory, with plans to produce over 1,000 units for in-house use this year and start selling to customers next year. Musk's targeting 10,000 to 12,000 robots in 2025, but China's recent restrictions on rare earth magnet exports, announced last month, could slow things down, since those magnets drive the robot's motors.

Priced at $20,000 to $30,000, Optimus is gunning for a $4.7 trillion humanoid robot market by 2050, with Musk claiming it could outshine Tesla's $1 trillion car business, as he said in last month's earnings call.

The dance video's a hit, but some online voices argue it's more show than substance, saying robots should focus on "real" tasks like factory automation.

Tesla's AI chatbot ranks Optimus fifth among humanoid robots, behind Unitree's $16,000 G1, citing untested practical use, but its cloud-connected learning, updating all units instantly, gives it a leg up over static competitors. Plans to deploy thousands in Tesla's plants by year-end, tackling repetitive tasks, align with moves like Hyundai's order of 10,000 Boston Dynamics robots for U.S. factories.



Tesla's Optimus Robot Takes the Stage

CHALLENGES AND FUTURE POTENTIAL

Optimus' dance is stealing the spotlight, but there are hurdles to clear. China's magnet export limits, tied to U.S. trade disputes, could choke supply chains, with Musk seeking guarantees the parts won't be repurposed for military use. Autonomy's still a question—past demos leaned on human operators, and while the AI chatbot confirms this dance is real-time, some online skeptics want clearer proof it's fully independent.

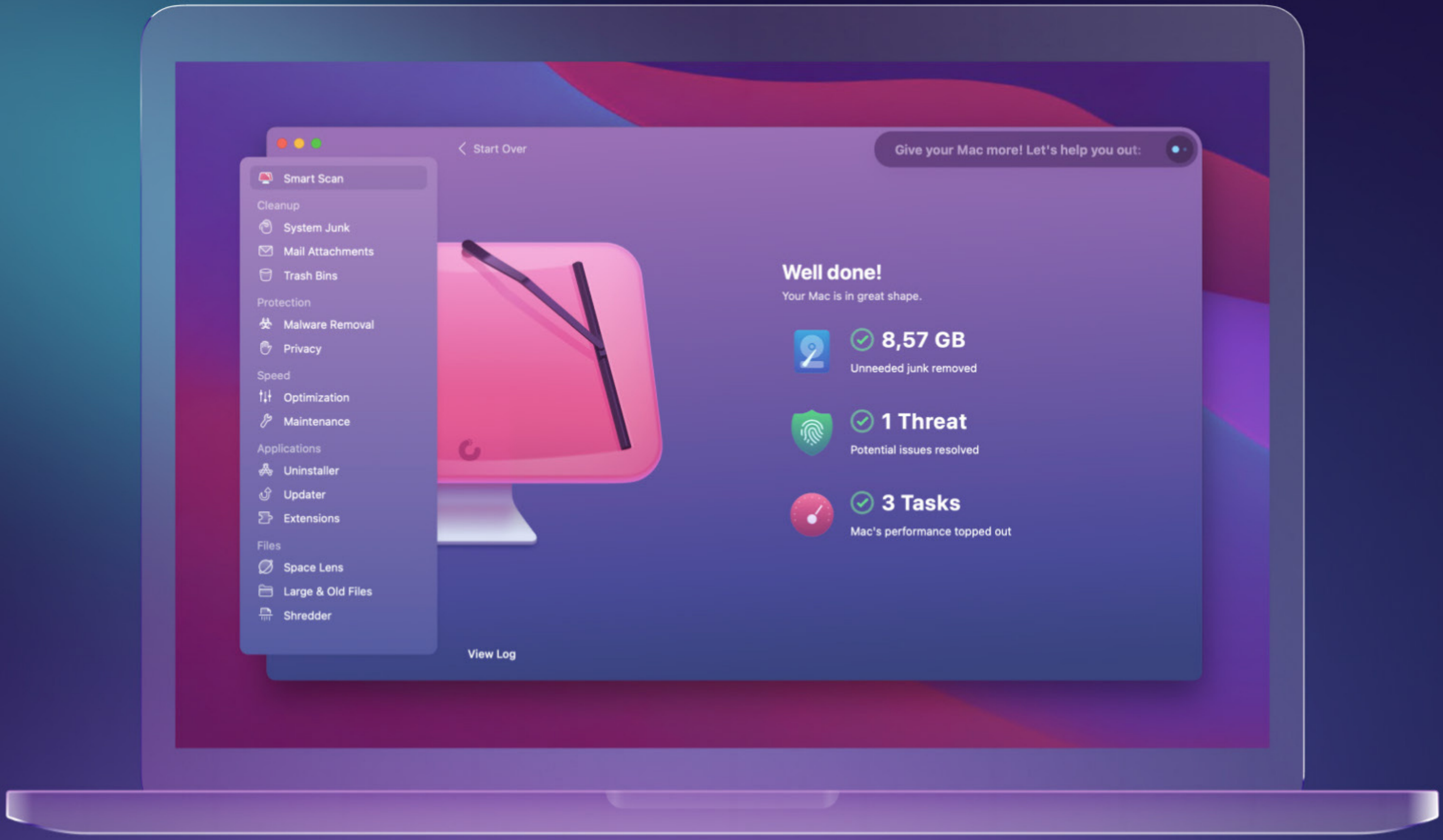
General Dynamics' 7,000 robots show the value of slow, steady testing, and Tesla's fast pace risks hiccups, with only a few dozen Optimus units built so far. Cybersecurity's a concern too, as cloud-connected robots could be vulnerable to hacks, a worry heightened by recent tech security updates.

Musk's dreaming big, envisioning millions of Optimus robots by 2030, doing everything from chores to construction.

Its cloud learning, syncing updates across all units, mirrors Tesla's vehicle software, giving it an edge over rivals like Unitree. With 299,100 EVs sold in the U.S. in Q1 2025, tech adoption's on fire, and Optimus could ride that wave, but supply chains and full autonomy need to lock in.

For now, its dance moves are a dazzling hint at a future where robots might just boogie their way into our daily lives.

TESLA



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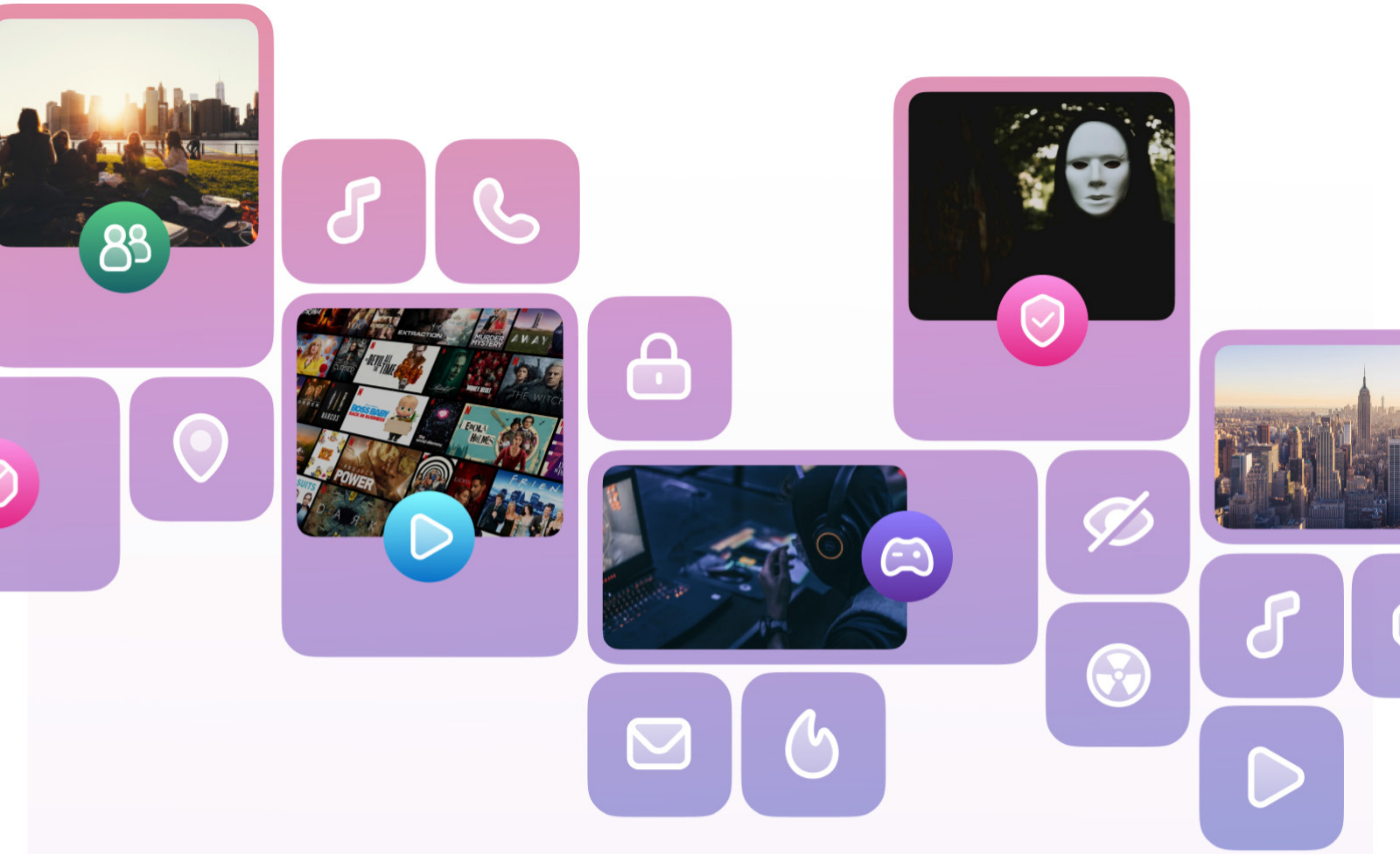

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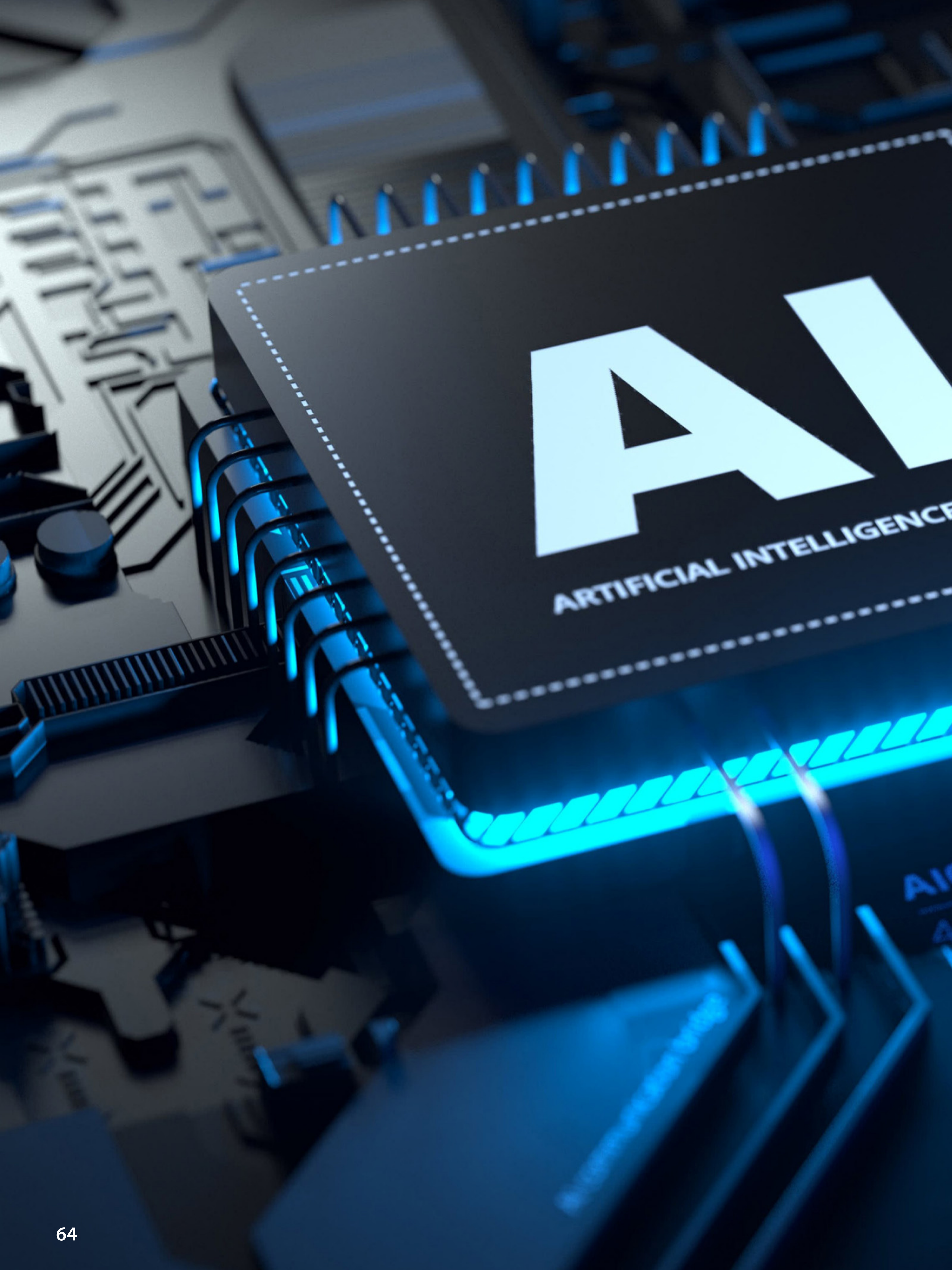
AI Factories

AN INEVITABLE REVOLUTION IN PRECISION MANUFACTURING


AI
ARTIFICIAL INTELLIGENCE

E CHIPSET
overheat system
08 - BRAIN
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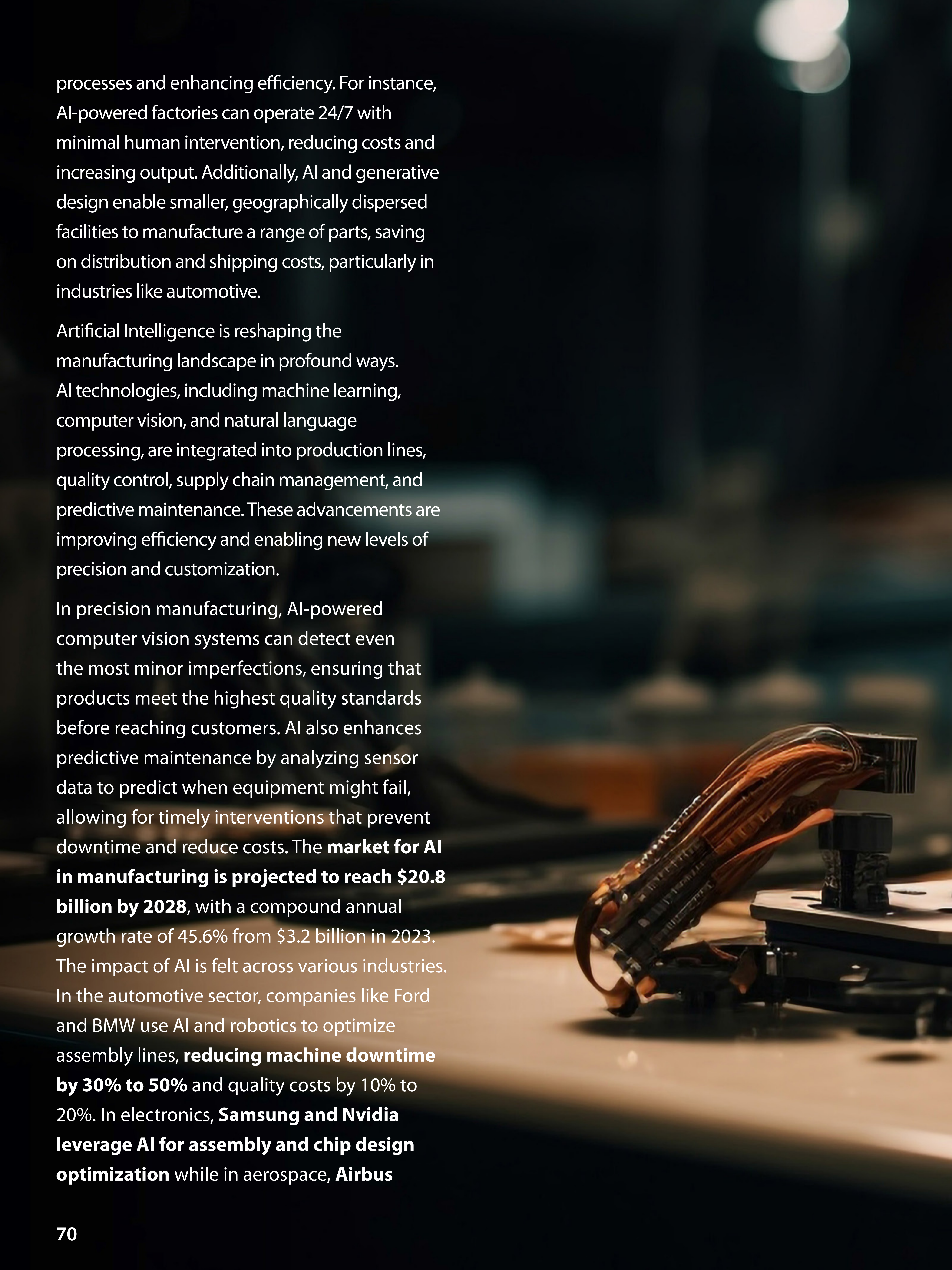
host device ID: 2569ch
extended CPUID: e568c10

Thanks to technological innovations, economic pressures, and ethical considerations, the manufacturing landscape is shifting. For decades, high-precision manufacturing has been dominated by Asian powerhouses like China, South Korea, and Taiwan. However, a perfect storm is accelerating the adoption of AI-powered manufacturing, bringing industrial activity back to the US, and unlocking opportunities for manufacturers and consumers alike.

THE FUTURE OF MANUFACTURING

Asia's dominance in high-precision manufacturing is well-established. Countries like China and Taiwan have developed sophisticated supply chains and expertise in producing complex components at scale. According to the **National Association of Manufacturers, over 60% of U.S. tech hardware is manufactured in Asia,** with China alone accounting for nearly 40% of global electronics production. This reliance has been beneficial for cost savings and efficiency, but has also exposed vulnerabilities. Ethical concerns have increasingly come to the forefront. Reports of poor **working conditions, low wages, and environmental degradation in some Asian factories** have sparked public backlash and prompted U.S. companies to reconsider their supply chains. Geopolitical tensions and supply chain disruptions, exacerbated by events like the COVID-19 pandemic and **U.S.-China trade disputes** have further highlighted the risks of over-dependence on overseas manufacturing. These challenges are driving a reevaluation of manufacturing strategies, with AI emerging as a change enabler.

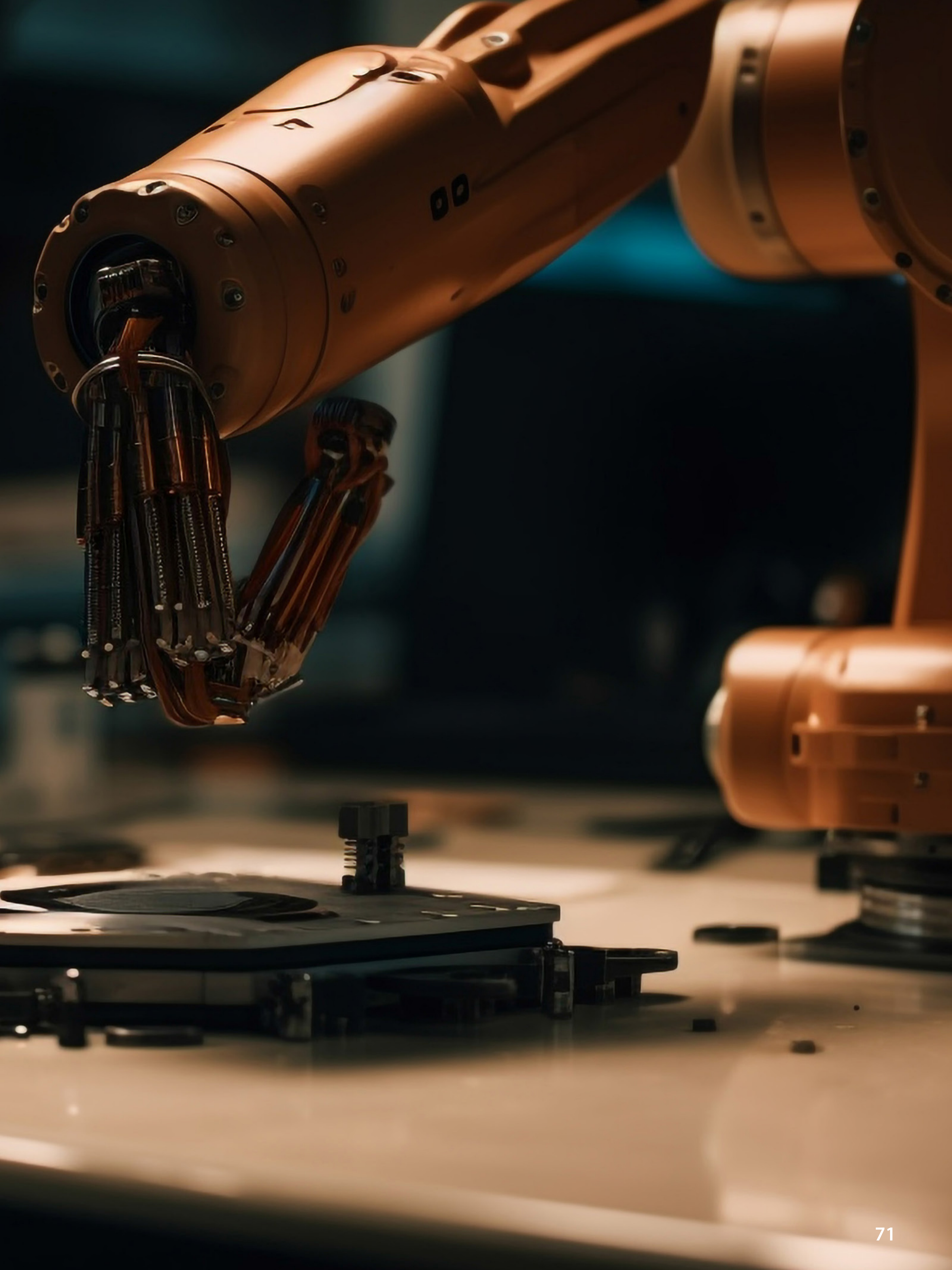
President **Donald Trump has introduced significant tariffs on Chinese goods,** aiming to level the playing field and encourage domestic manufacturing. The tariffs have contributed to a renewed interest in reshoring. The desire to reduce dependence on foreign supply chains, coupled with technological advancements, makes bringing manufacturing back to the U.S. more compelling. AI-driven manufacturing offers a solution to the traditional challenges of reshoring, such as higher labor costs. AI can make domestic manufacturing competitive again by automating

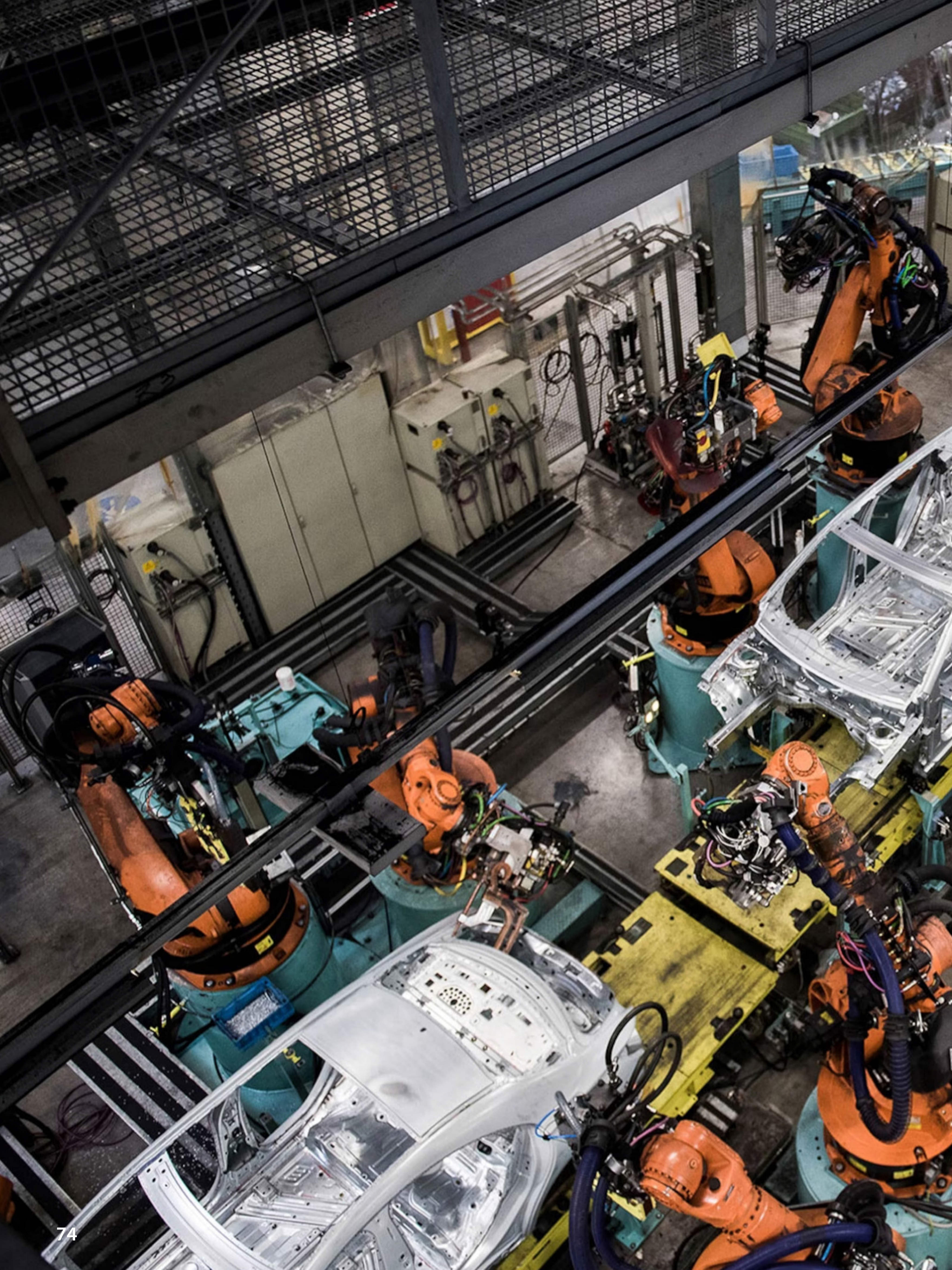


processes and enhancing efficiency. For instance, AI-powered factories can operate 24/7 with minimal human intervention, reducing costs and increasing output. Additionally, AI and generative design enable smaller, geographically dispersed facilities to manufacture a range of parts, saving on distribution and shipping costs, particularly in industries like automotive.

Artificial Intelligence is reshaping the manufacturing landscape in profound ways. AI technologies, including machine learning, computer vision, and natural language processing, are integrated into production lines, quality control, supply chain management, and predictive maintenance. These advancements are improving efficiency and enabling new levels of precision and customization.

In precision manufacturing, AI-powered computer vision systems can detect even the most minor imperfections, ensuring that products meet the highest quality standards before reaching customers. AI also enhances predictive maintenance by analyzing sensor data to predict when equipment might fail, allowing for timely interventions that prevent downtime and reduce costs. The **market for AI in manufacturing is projected to reach $20.8 billion by 2028**, with a compound annual growth rate of 45.6% from $3.2 billion in 2023. The impact of AI is felt across various industries. In the automotive sector, companies like Ford and BMW use AI and robotics to optimize assembly lines, **reducing machine downtime by 30% to 50%** and quality costs by 10% to 20%. In electronics, **Samsung and Nvidia leverage AI for assembly and chip design optimization** while in aerospace, **Airbus**





uses AI to significantly cut aerodynamics prediction time. These examples illustrate how AI is not just automating tasks but also enhancing human capabilities, leading to smarter, more efficient manufacturing.

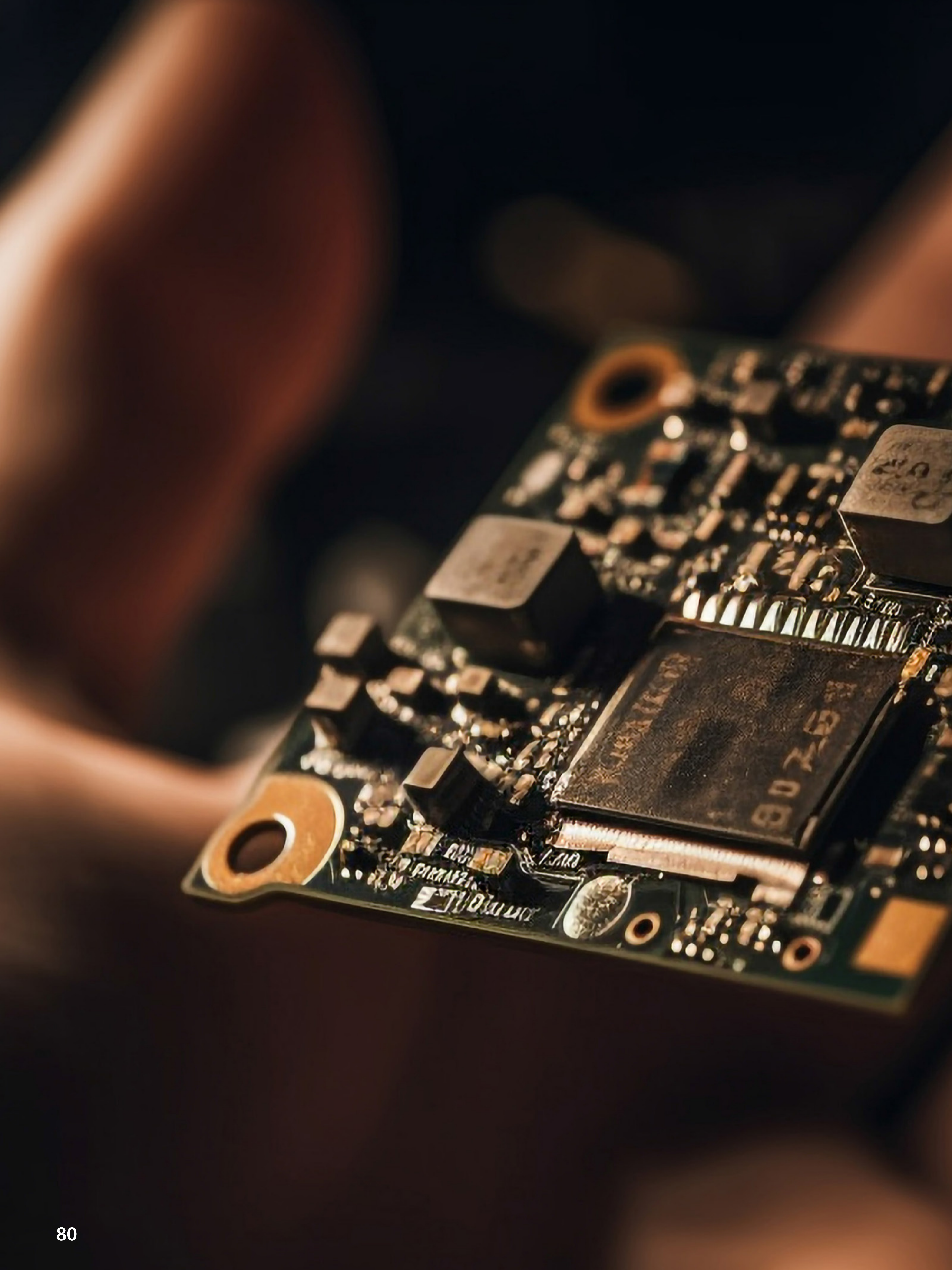
ROBOTICS IN MANUFACTURING

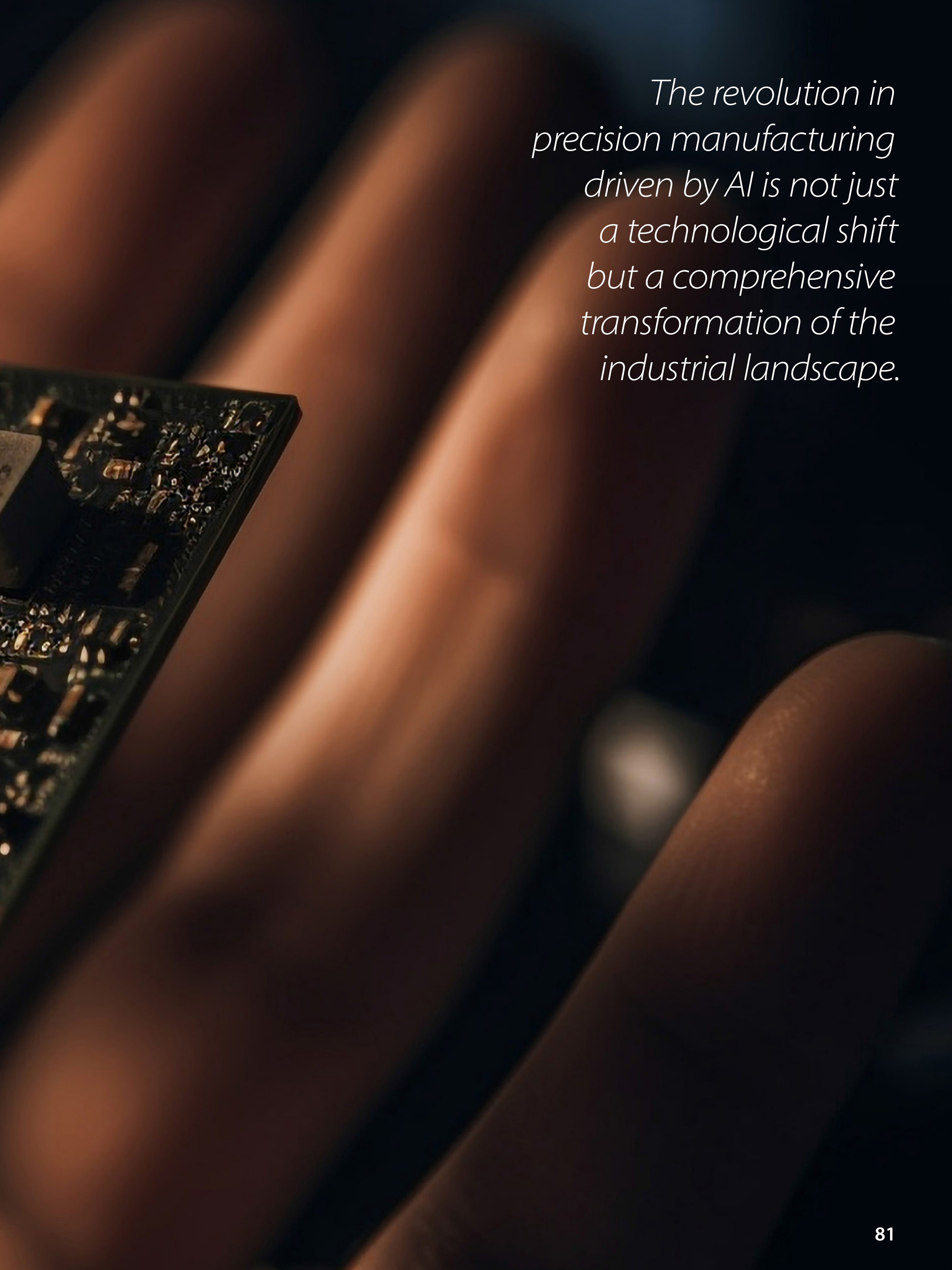
One of the most visible **manifestations of AI in manufacturing is the rise of robotic assembly lines.** Traditional assembly lines are being replaced or augmented by robots that can perform tasks with unmatched precision, speed, and consistency. Collaborative robots, or "cobots," work alongside human workers, handling repetitive or hazardous tasks, enhancing safety and efficiency. The benefits of robotic assembly lines are manifold: precision, efficiency, cost savings, safety, and the ability to run operations around the clock. However, this shift also raises important questions about the future of human labor in manufacturing. Indeed, the **increasing automation of manufacturing processes inevitably leads to concerns about job losses.** As AI and robotics take over repetitive and routine tasks, the demand for traditional manufacturing jobs may decrease. A 2023 report noted that **49% of manufacturers struggle with recruiting and retaining qualified talent,** highlighting the challenge of transitioning to AI-driven processes.

However, this transition also presents opportunities for upskilling and reskilling the workforce. AI is not just about replacing human labor but about augmenting it. By handling mundane tasks, **AI frees human workers to engage in more creative, strategic, and value-added activities.** What's more, the implementation of AI creates new roles in areas

such as system management, data analysis, and maintenance. An innovative approach to this transition is the idea of employees becoming shareholders. By giving workers a stake in the companies automating their jobs, companies can ensure that employees support and benefit from the shift to AI manufacturing. This model mitigates the negative impacts of automation and aligns the interests of workers with those of the company, fostering a more collaborative and sustainable future. While this concept is theoretical and untested, it offers a potential pathway to address automation's social and economic challenges.

As AI becomes more integral to manufacturing, ethical considerations become paramount. Issues such as data privacy, security, and the societal impact of automation must be addressed. Manufacturers must commit to responsible AI development, ensuring that personal data is protected and that compliance with data privacy regulations is maintained. Transparency about the use of AI and its impact on employees, customers, and society is crucial, with mechanisms for feedback to ensure fairness and accountability. There is also resistance to AI adoption due to its high cost and the scarcity of skilled workers. Concepts like "factory in a box" (pre-configured systems that can be easily integrated into existing operations) can reduce the barriers to adoption. Additionally, manufacturers must adhere to ethical guidelines, check for bias, and develop guardrails to ensure systems are accurate and equitable. With these in place, however, AI in manufacturing can be a force for good.





The revolution in precision manufacturing driven by AI is not just a technological shift but a comprehensive transformation of the industrial landscape.

The perfect storm of ethical concerns, geopolitical tensions, and technological advancements propels the U.S. towards a new manufacturing era, where AI factories lead the way, with innovations at every step.

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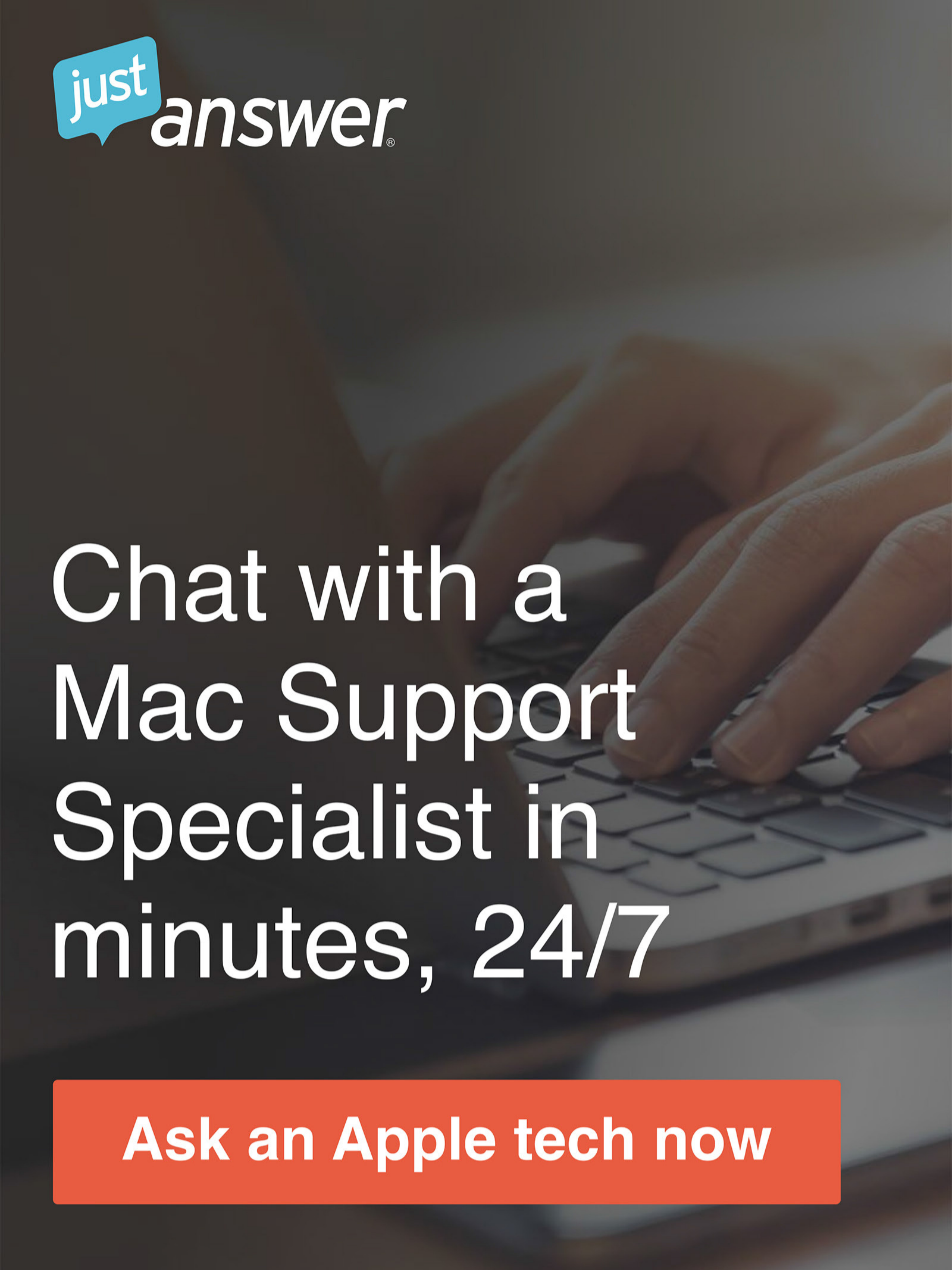

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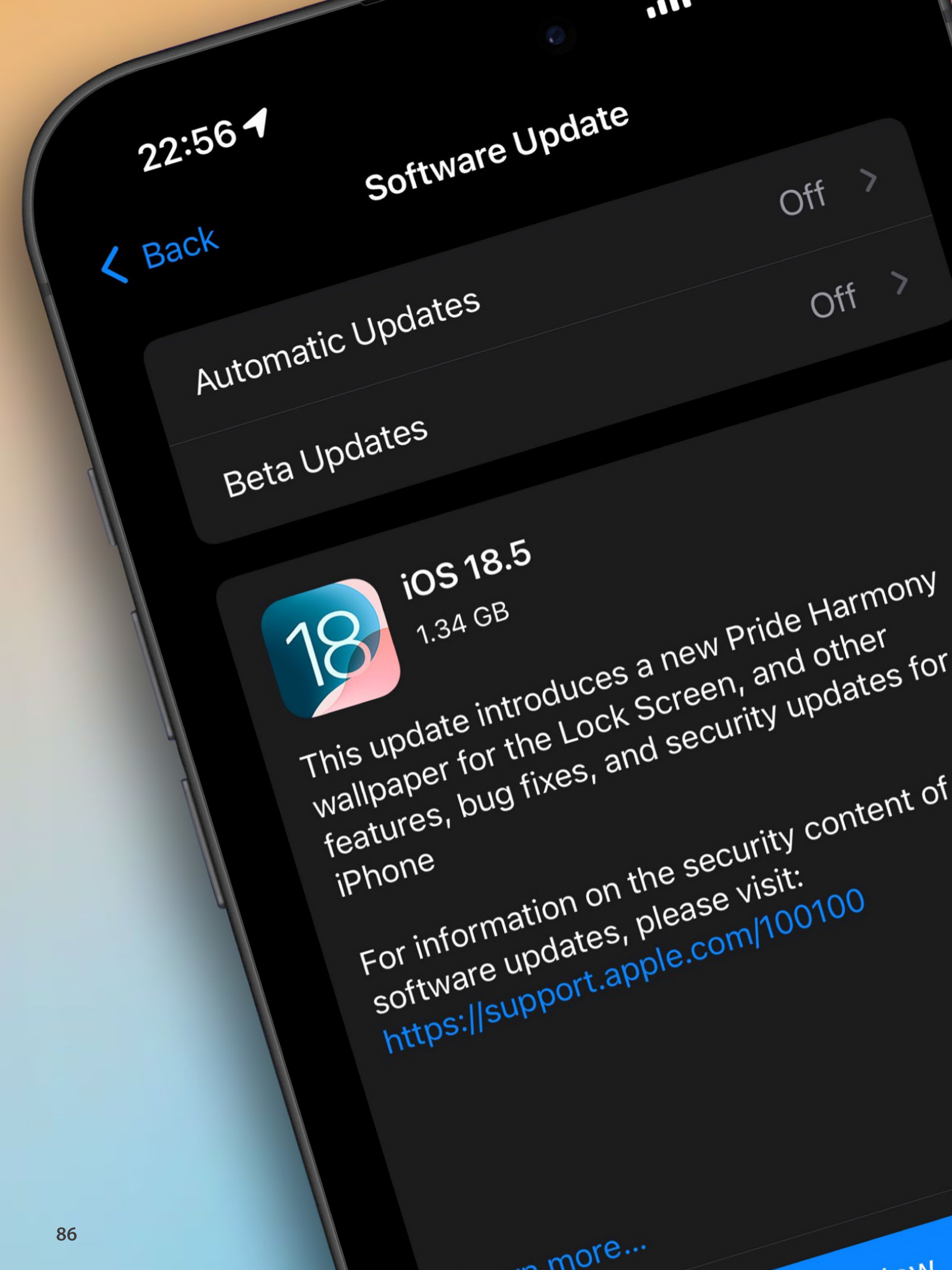


Software Update

Automatic Updates Off

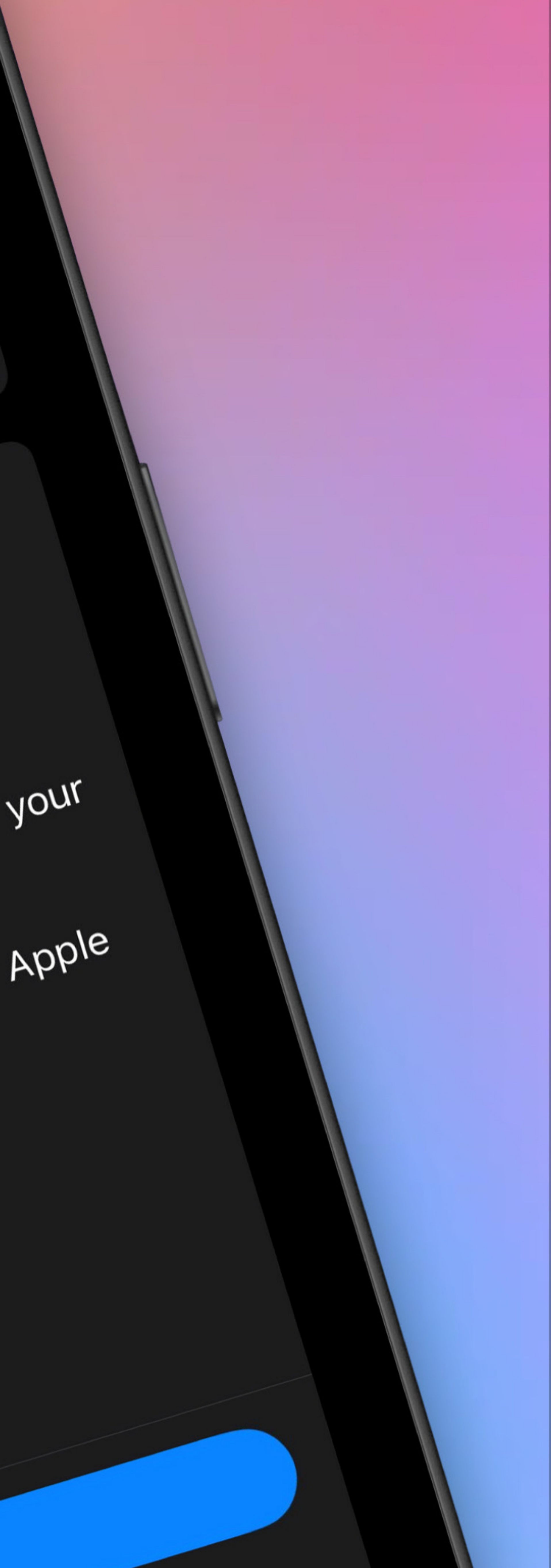
Beta Updates Off

iOS 18.5

1.34 GB

This update introduces a new Pride Harmony wallpaper for the Lock Screen, and other features, bug fixes, and security updates for iPhone

For information on the security content of software updates, please visit: https://support.apple.com/100100



APPLE RELEASES IOS 18.5 TO PATCH OVER 30 IPHONE SECURITY VULNERABILITIES

Apple has released iOS 18.5, addressing over 30 security vulnerabilities affecting iPhone components such as Bluetooth, FaceTime, and the Notes app, as announced this week.

The update, which also includes new features like Mail changes and Screen Time password notifications, strengthens the security of devices ranging from the iPhone XS to the iPhone 16e, ensuring protection against potential cyberattacks.

C1

For iPhone users, developers, and cybersecurity experts, this release underscores Apple's ongoing commitment to safeguarding its 2.2 billion active devices amid rising threats in the digital landscape.

A notable fix targets a baseband vulnerability in the iPhone 16e's C1 modem, where an attacker in a privileged network position could intercept network traffic.

Other patches address issues in CoreMedia, AppleJPEG, Call History, and WebKit, with no reported exploitation of these flaws in the wild, according to Apple's security documentation.

The update, available for iPhone XS and later models, is recommended for immediate installation to protect against risks like unauthorized data access or app crashes, aligning with Apple's response to sophisticated attacks seen in prior updates.

BASEBAND FIX FOR IPHONE 16E

The iOS 18.5 update includes a critical patch for the iPhone 16e, the first device to feature Apple's C1 modem, addressing a vulnerability that could allow an attacker with privileged network access to intercept data traffic. The fix ensures secure communication for the modem, which supports 5G and satellite connectivity, preventing potential breaches of sensitive information. This issue, exclusive to the iPhone 16e, was not reported as exploited, as noted in Apple's security advisory.

The update applies to all iPhone 16e models, reinforcing the modem's role in enabling T-Mobile's Starlink satellite texting service, introduced in iOS 18.3 for newer iPhones and expanded to iPhone 13 models in iOS 18.5.

WEBKIT AND COREMEDIA VULNERABILITIES

The release patches 10 vulnerabilities in WebKit, the engine powering Safari, which could allow malicious web content to bypass security sandboxes or execute unauthorized code.

These include an out-of-bounds write issue, previously mitigated in iOS 17.2 but now extended to older devices, ensuring broader protection against cross-site scripting attacks.

Two CoreMedia flaws, including a use-after-free bug, were addressed to prevent privilege escalation by malicious apps, building on fixes for a similar issue (CVE-2025-24085) exploited before iOS 17.2.

These patches, affecting iPhone XS and later models, enhance browser and multimedia security, critical for users accessing web-based content or real-time applications like FaceTime.

18.5

BLUETOOTH AND FACETIME SECURITY ENHANCEMENTS

iOS 18.5 includes two Bluetooth fixes to prevent unauthorized access by apps, which could otherwise exploit connections to access sensitive data or device functions.

Two FaceTime vulnerabilities, potentially allowing malicious calls to bypass authentication or cause app crashes, were also resolved with improved checks.

These updates ensure secure communication for the 1.4 billion iPhone users relying on FaceTime and Bluetooth for daily interactions, as indicated by industry usage estimates.

The fixes apply to all supported iPhones and iPads, including the iPad Pro 13-inch and later models, maintaining robust privacy and functionality for communication features.

NOTES AND ICLOUD SHARING PATCHES

The update addresses vulnerabilities in the Notes app, where parsing maliciously crafted files could lead to unexpected app termination, and in iCloud Document Sharing, which risked unauthorized access to shared files.

These patches, alongside others for Call History, CoreAudio, and AppleJPEG, fortify apps integral to productivity and collaboration, ensuring data integrity for users managing personal or professional content.

The fixes cover iPhone XS and later, as well as compatible iPad models like the iPad Air 3rd generation and later, protecting a wide range of devices used for cloud-based workflows.

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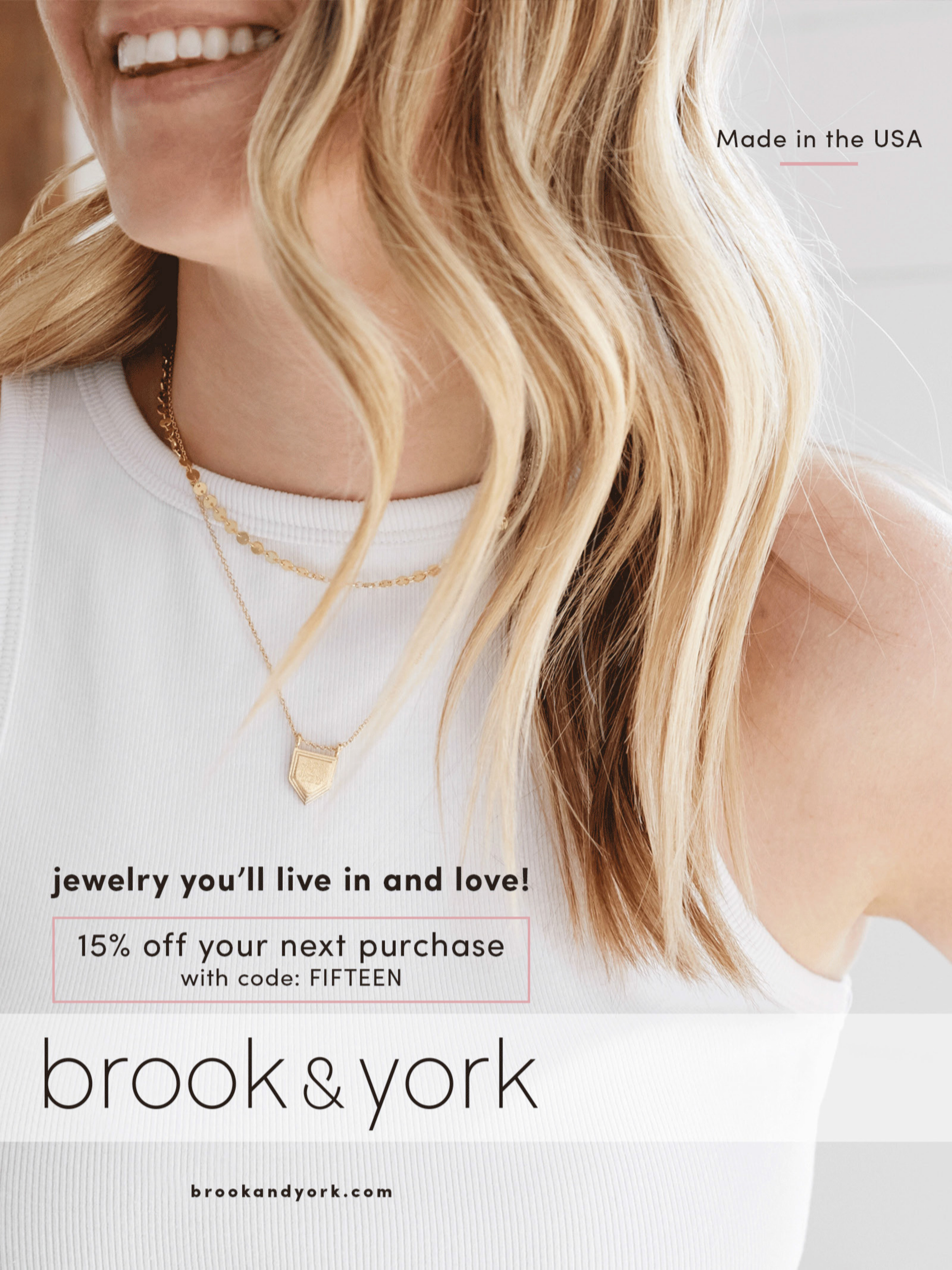
9:41
18.5

IMPLEMENTATION AND USER ACTION

iOS 18.5 is available for iPhone XS and later models, iPad Pro 13-inch and later, iPad Air 3rd generation and later, iPad 7th generation and later, and iPad mini 5th generation and later. Users can install the update via Settings > General > Software Update, with Automatic Updates recommended for timely protection.

Apple advises immediate installation to mitigate risks, as the vulnerabilities, while not yet exploited, are now public, increasing potential attack vectors, per company guidance.

The release, follows Apple's pattern of rapid security responses, with iOS 18.4 addressing 62 vulnerabilities in March 2025, ensuring ongoing protection for its ecosystem.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APPLE UNVEILS BRAIN CONTROL ACCESSIBILITY FEATURES FOR IPHONE AND IPAD

Imagine firing off a text, flipping through apps, or adjusting your music playlist just by thinking about it—no taps, no voice commands, just your brain at work.

That’s what Apple’s aiming for with its new Brain Control accessibility features, set to roll out later this year across iOS, iPadOS, and visionOS, as announced this week.

Designed for folks with severe mobility challenges, like those with spinal cord injuries or ALS, these features let users control their iPhone or iPad using brain signals alone.

For the 2.35 billion people using Apple devices, app developers, and tech enthusiasts, this is a massive step toward making gadgets truly accessible, tapping into brain-computer interfaces (BCIs) that feel like something out of a sci-fi flick.

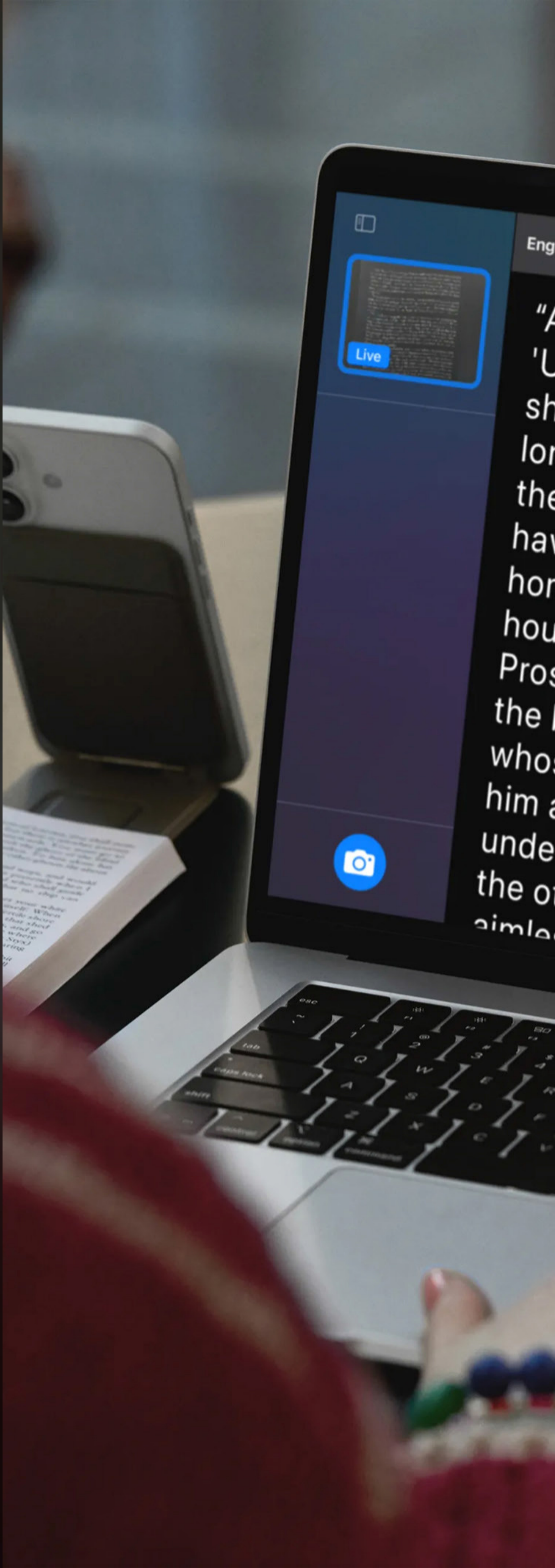
Apple's partnering with Synchron, a New York-based BCI startup, to bring this to life, marking the first time iPhones and iPads will natively support thought-driven controls.

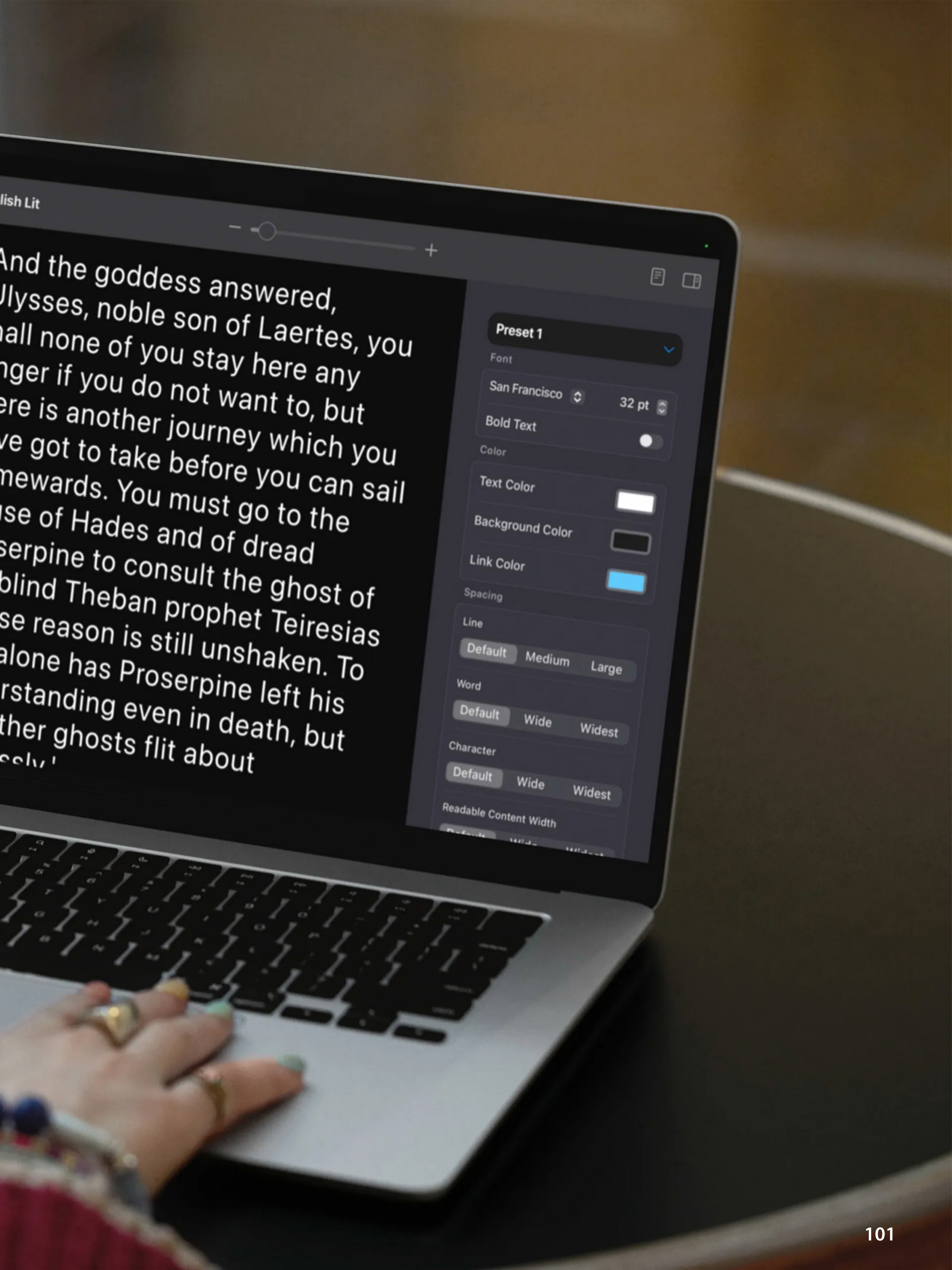
Meanwhile, Neuralink, Elon Musk's bold venture, is making headlines by helping paralyzed patients play chess with their minds, setting the stage for what BCIs can do.

Apple's move, alongside other BCI pioneers like Synchron and Paradromics, shows how this tech can transform lives, especially for those who've been locked out by traditional interfaces. Let's dive into what Apple's cooking up, how it fits with other BCI breakthroughs, and why Neuralink's work is a big deal for this field.

APPLE'S BRAIN CONTROL PROTOCOL WITH SYNCHRON

Apple's Brain Control feature adds a Brain-Computer Interface (BCI) Human Interface Device (HID) protocol to Switch Control, a system that helps users with limited mobility navigate devices using alternative inputs like switches or eye movements. This new protocol lets brain implants, such as Synchron's Stentrode, send neural signals to an iPhone, iPad, or Apple Vision Pro, turning thoughts into actions—opening an app, typing a note, or scrolling a feed. Unlike older BCIs that mimic mouse cursors, it maps brain activity directly to commands, making it smoother for users with conditions like quadriplegia or muscular dystrophy.





And the goddess answered,
Jlysses, noble son of Laertes, you
hall none of you stay here any
nger if you do not want to, but
ere is another journey which you
ve got to take before you can sail
mewards. You must go to the
use of Hades and of dread
serpine to consult the ghost of
blind Theban prophet Teiresias
se reason is still unshaken. To
alone has Proserpine left his
rstanding even in death, but
ther ghosts flit about
ssly.'

Preset 1

Font

San Francisco 32 pt

Bold Text ○

Color

Text Color

Background Color

Link Color

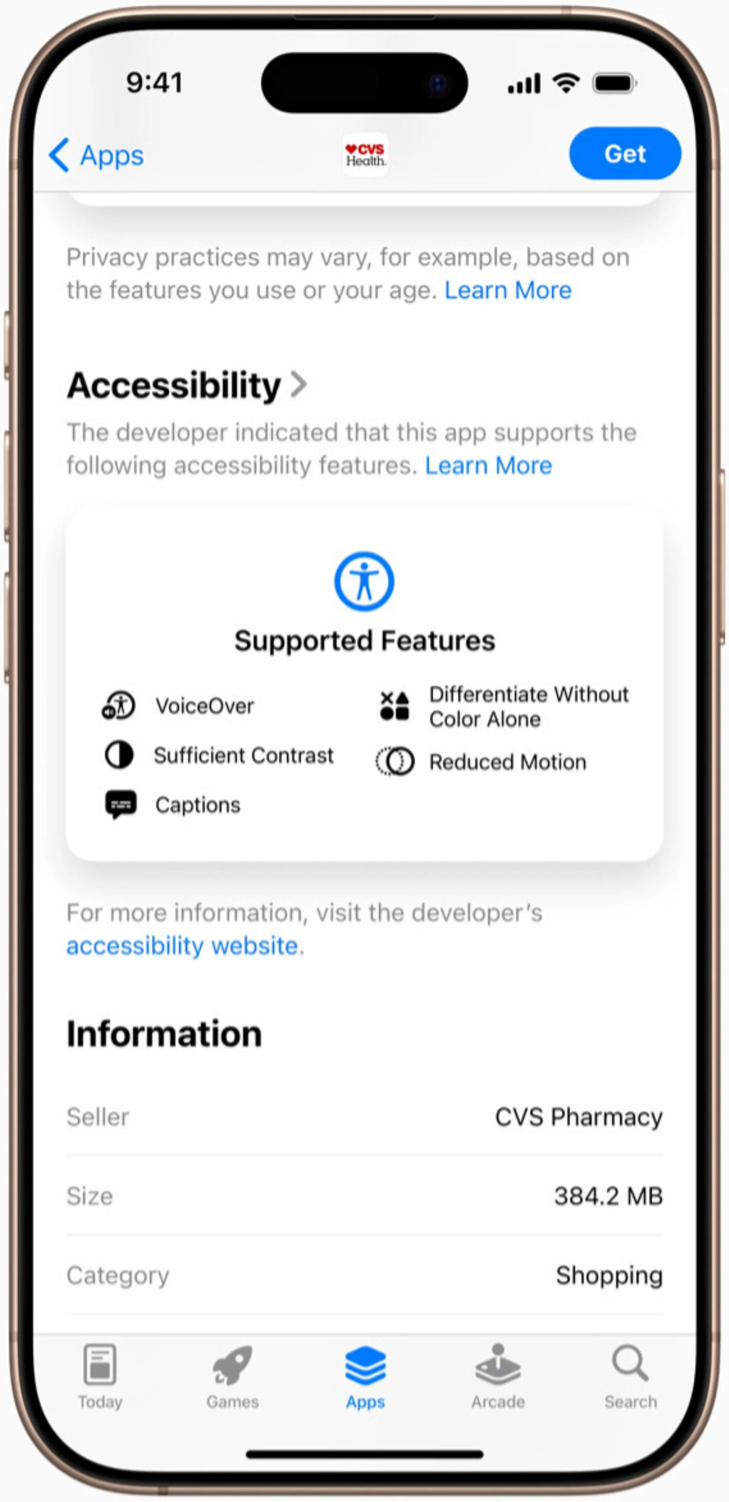
Spacing

Line: **Default** Medium Large

Word: **Default** Wide Widest

Character: **Default** Wide Widest

Readable Content Width



Privacy practices may vary, for example, based on the features you use or your age. Learn More

Accessibility >

The developer indicated that this app supports the following accessibility features. Learn More

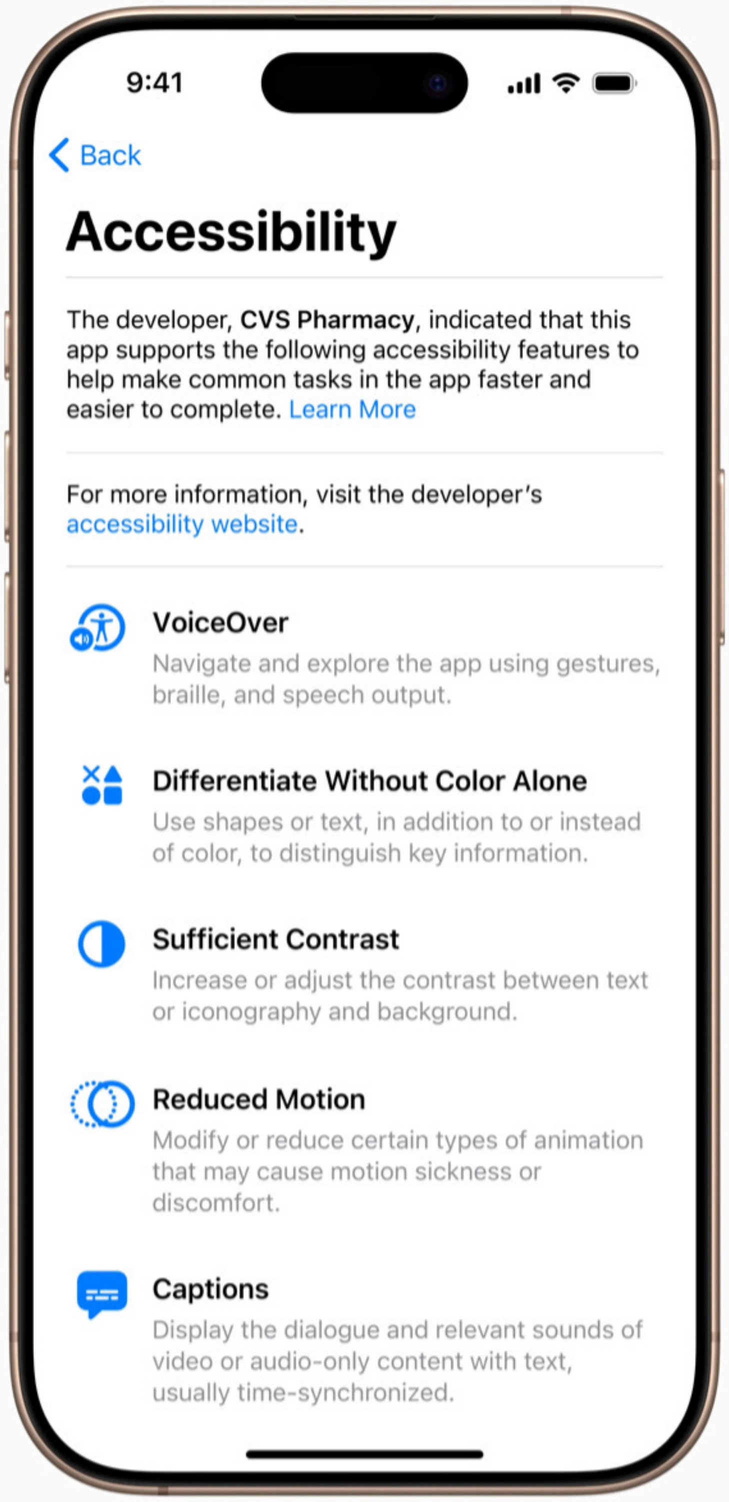
Supported Features

- VoiceOver
- Sufficient Contrast
- Captions
- Differentiate Without Color Alone
- Reduced Motion

For more information, visit the developer's accessibility website.

Information

Seller	CVS Pharmacy
Size	384.2 MB
Category	Shopping



Accessibility

The developer, **CVS Pharmacy**, indicated that this app supports the following accessibility features to help make common tasks in the app faster and easier to complete. Learn More

For more information, visit the developer's accessibility website.

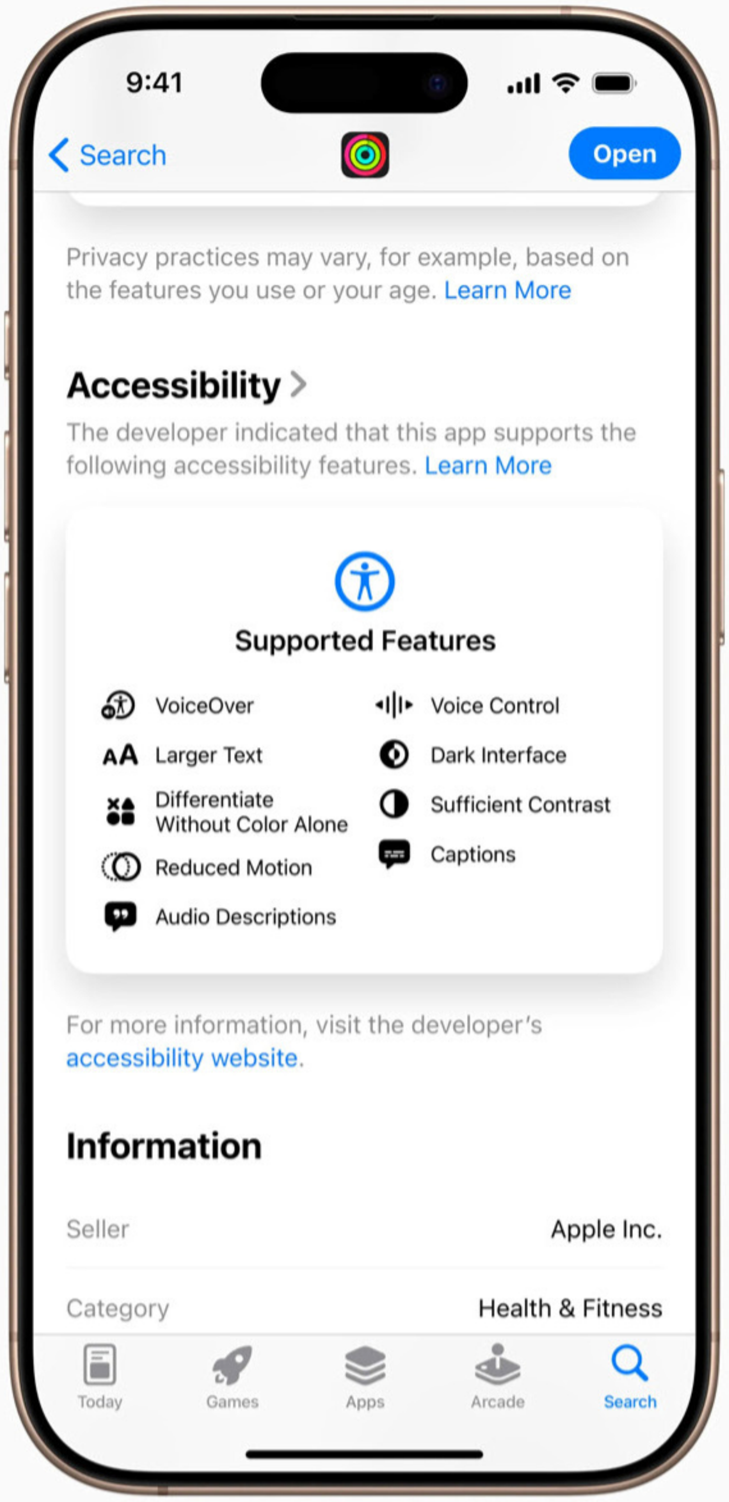
VoiceOver
Navigate and explore the app using gestures, braille, and speech output.

Differentiate Without Color Alone
Use shapes or text, in addition to or instead of color, to distinguish key information.

Sufficient Contrast
Increase or adjust the contrast between text or iconography and background.

Reduced Motion
Modify or reduce certain types of animation that may cause motion sickness or discomfort.

Captions
Display the dialogue and relevant sounds of video or audio-only content with text, usually time-synchronized.



Privacy practices may vary, for example, based on the features you use or your age. Learn More

Accessibility >

The developer indicated that this app supports the following accessibility features. Learn More

Supported Features

- VoiceOver
- Larger Text
- Differentiate Without Color Alone
- Reduced Motion
- Audio Descriptions
- Voice Control
- Dark Interface
- Sufficient Contrast
- Captions

For more information, visit the developer's accessibility website.

Information

Seller	Apple Inc.
Category	Health & Fitness

Synchron's Stentrode, inserted through blood vessels to avoid invasive brain surgery, has been implanted in 10 patients by 2025, backed by investors like Bill Gates and Jeff Bezos. Apple's collaboration with Synchron, revealed this week, makes it the first major tech company to integrate BCI controls natively into its operating systems, a huge win for accessibility.

The feature, launching in fall 2025, will work on devices starting with the iPhone XS and iPad Air 3rd generation, reaching millions with severe disabilities.

Sentiment on X calls it a breakthrough, with users saying it could give people with ALS a new way to connect.

NEURALINK'S PIONEERING BCI ACHIEVEMENTS

Neuralink, launched by Elon Musk in 2016, is pushing BCI tech to new heights with its N1 implant, dubbed "Telepathy," tested in three human patients since January 2024. This coin-sized device, placed in the motor cortex by a custom R1 surgical robot, uses 1,024 electrodes on 64 ultrathin threads to capture brain signals.

Noland Arbaugh, a 29-year-old quadriplegic, was the first recipient, controlling a computer cursor and playing chess with his thoughts, achieving a control rate of over nine bits per second—doubling the speed of earlier BCIs.

Two more patients, including one named "Alex," received implants by January 2025, though Arbaugh's device saw 85% of its threads detach, requiring software adjustments to maintain functionality.

The FDA approved Neuralink's trials in May 2023, after animal tests that drew scrutiny, with over 1,500 animals euthanized since 2018 due to aggressive research timelines.

Despite challenges, Neuralink's wireless implant offers unmatched precision for conditions like paralysis or ALS.

Its Blindsight project, granted FDA breakthrough status in September 2024, aims to restore vision by stimulating the visual cortex, though experts question its near-term viability. Neuralink's successes, enabling thought-driven tasks, inspire Apple's accessibility efforts, showing how BCIs can empower those with severe mobility limitations.

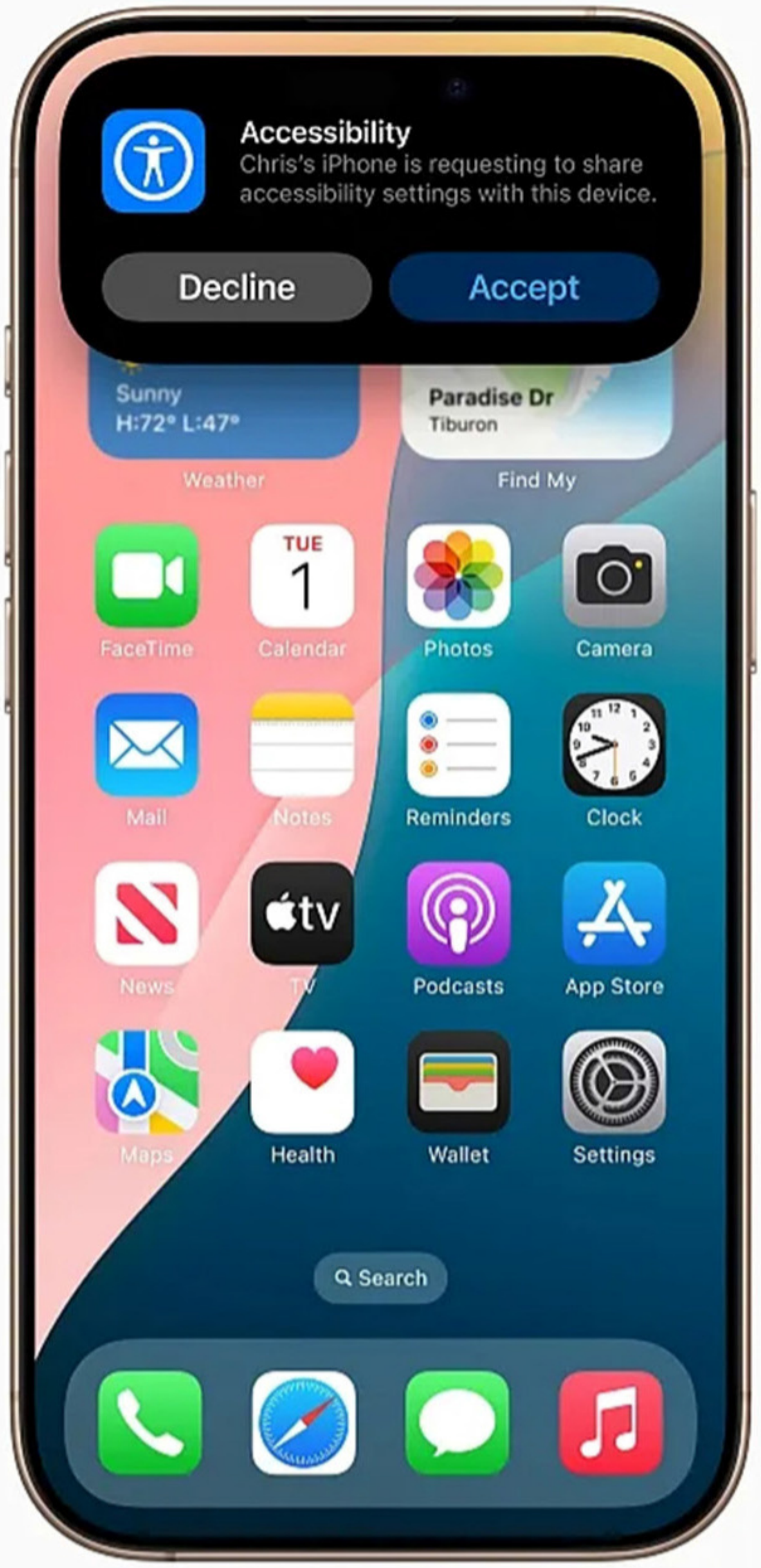
OTHER BCI INNOVATIONS IN THE FIELD

Synchron's Stentrode isn't alone in advancing BCIs—other players are making strides too. The device, implanted in 10 patients, lets users control computers for tasks like sending emails or online shopping, using a minimally invasive approach that threads electrodes through blood vessels to the motor cortex.

Its FDA clearance for trials and Apple partnership highlight its practical edge, with a patient registry opened in April 2025 to expand access. Paradromics, based in Austin, is developing a 1,600-electrode cortical implant to restore speech for locked-in syndrome patients, targeting trials in 2026.

Their tech converts neural signals into text, approaching the speed of smartphone typing.

Blackrock Neurotech's Utah Array, used since 2004, has enabled patients to move cursors and



Accessibility

Chris's iPhone is requesting to share accessibility settings with this device.

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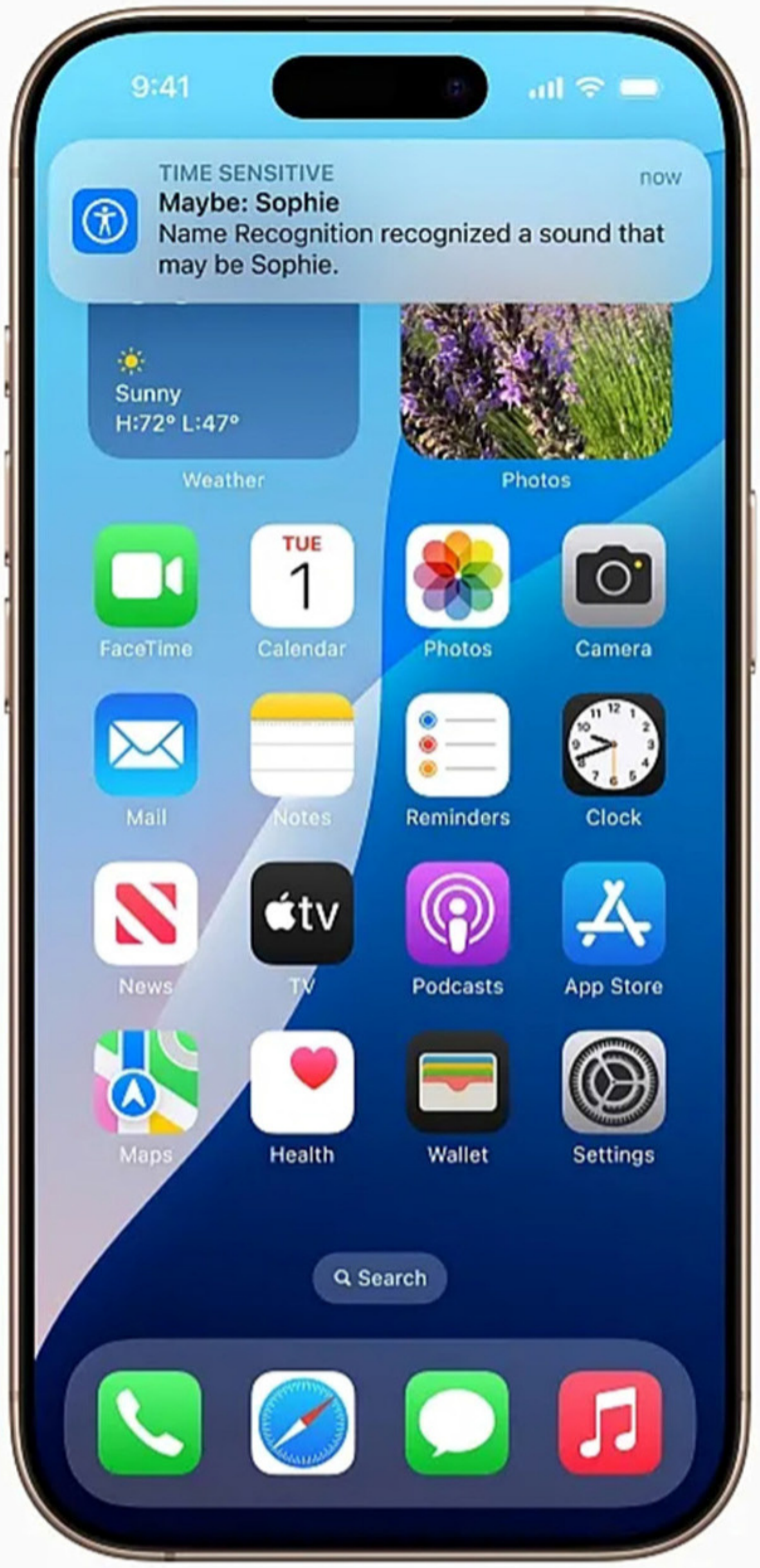

TIME SENSITIVE

now

Maybe: Sophie

Name Recognition recognized a sound that may be Sophie.

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Sunny
H:72° L:47°
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FaceTime
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Calendar
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Mail
Notes
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Search

PH

operate robotic limbs, but its 100 electrodes are less advanced than Neuralink's setup.

Precision Neuroscience, founded by a Neuralink co-founder, uses surface electrodes to minimize brain damage, earning FDA clearance in 2024 for intraoperative brain mapping.

Stanford's 2021 BCI allowed a spinal injury patient to type at speeds rivaling healthy users, proving communication potential. These efforts, from invasive to surface-based systems, show a field balancing precision and safety, giving Apple a range of technologies to complement its BCI protocol.

TECHNICAL DETAILS OF APPLE'S IMPLEMENTATION

Apple's BCI protocol integrates neural signals into Switch Control as a new input method, allowing implants to act like a keyboard or mouse, but driven by brain activity. Users focus on specific actions—like selecting an icon or typing a letter—and the implant translates those neural patterns into commands, processed by iOS or iPadOS.

The system uses machine learning to refine signal interpretation, ensuring accuracy for tasks like navigating the home screen or using VoiceOver.

It's designed for seamless integration, requiring no external apps, and supports devices from the iPhone XS and iPad Air 3rd generation, covering a wide swath of Apple's 2.2 billion active devices.

The protocol leverages bidirectional communication, providing feedback to the implant for real-time adjustments, a step beyond traditional assistive tech. Initial use is limited to patients with compatible implants, like Synchron's Stentrode, but Apple's open framework could support future devices, as hinted in company statements.

The feature, part of iOS 19 and iPadOS 19, will launch in fall 2025, with visionOS 2 support for Apple Vision Pro, enabling thought-driven control in spatial environments.

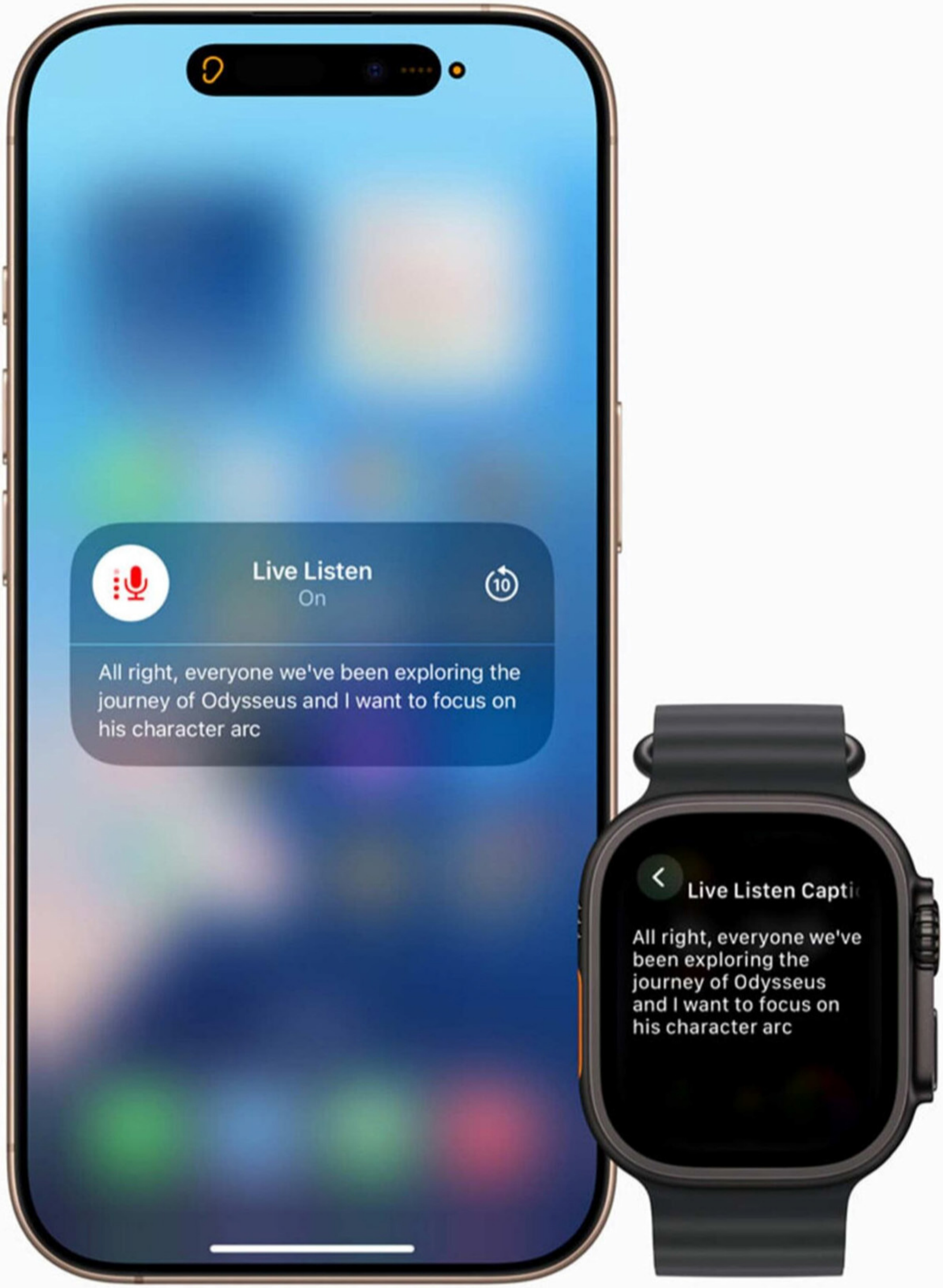
ETHICAL AND ACCESSIBILITY CONSIDERATIONS

Rolling out BCI tech isn't a walk in the park—there are big challenges to tackle. Implants like Synchron's Stentrode or Neuralink's N1 require surgery, which carries risks of infection or brain injury. Neuralink's trials saw electrode issues, and its animal testing, with 1,500 animals euthanized, sparked ethical debates.

Apple's protocol, as software, avoids surgical risks but must ensure flawless integration with implants to prevent miscommands, like accidentally sending a text. Privacy is a major concern—neural data could reveal intimate thoughts, and breaches, like those seen in China's brainwave monitoring, are a real threat. Apple's Private Cloud Compute offers a security model, but BCIs need ironclad protections.

Cost is another hurdle—implants cost tens of thousands, with only 10 Synchron and three Neuralink patients implanted by 2025. Apple's focus on severe disabilities ensures early access for those in need, but scaling to more users will require cheaper tech.

The FDA's oversight, approving Synchron and Neuralink trials, demands safe devices, and Apple's software must comply with these



Live Listen
On
10

All right, everyone we've been exploring the journey of Odysseus and I want to focus on his character arc

Live Listen Capti

All right, everyone we've been exploring the journey of Odysseus and I want to focus on his character arc standards. Ethical questions about consent and long-term effects loom, especially for vulnerable patients, making Apple's careful rollout critical to building trust.

FUTURE POTENTIAL AND BCI LANDSCAPE

Apple's Brain Control features are just the beginning—users with severe disabilities could soon navigate their iPhones or iPads with ease, from texting to gaming. The protocol's flexibility might one day support non-invasive BCIs, like EEG headsets, though implants offer the best precision for now. Neuralink's three patients and ambitious plans for 20-30 more in 2025 contrast with Synchron's 10 implants, showing a race for scale.

Paradromics' speech focus and Blackrock's motor control add depth, while non-invasive players like Neurable lag in accuracy. Apple's accessibility-first approach, unlike Neuralink's broader "human-AI symbiosis" goal, keeps it grounded, but the tech could eventually reach more users as costs drop.

The BCI field, with only a few dozen human implants worldwide, is still young, but Apple's protocol could make thought-driven control a reality for millions, starting with those who need it most.

The company's 2.2 billion devices offer a massive platform, and its Synchron partnership sets a practical tone, learning from Neuralink's high-stakes leaps. As the tech matures, it could redefine accessibility, giving people with disabilities new ways to connect, create, and engage with the world around them.

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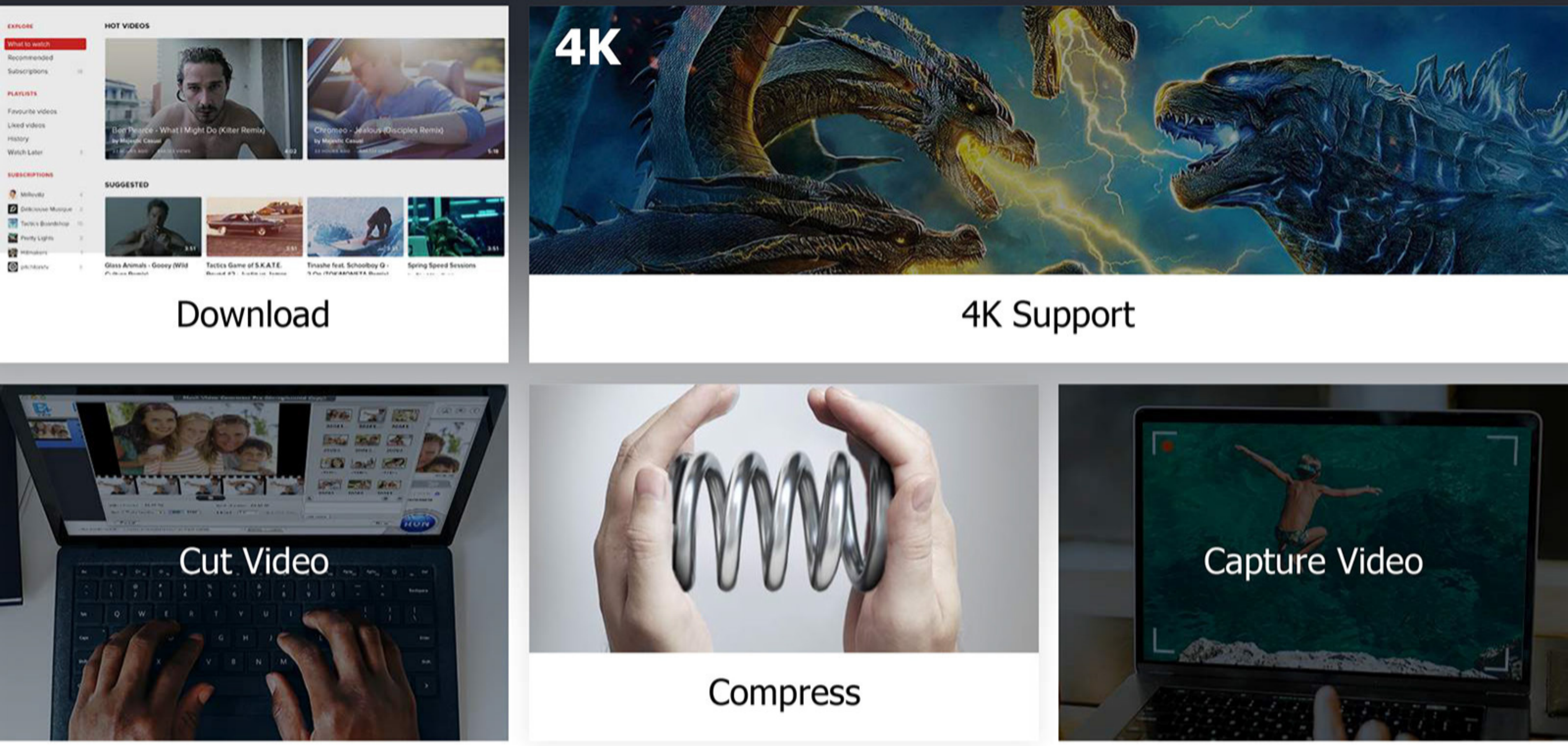
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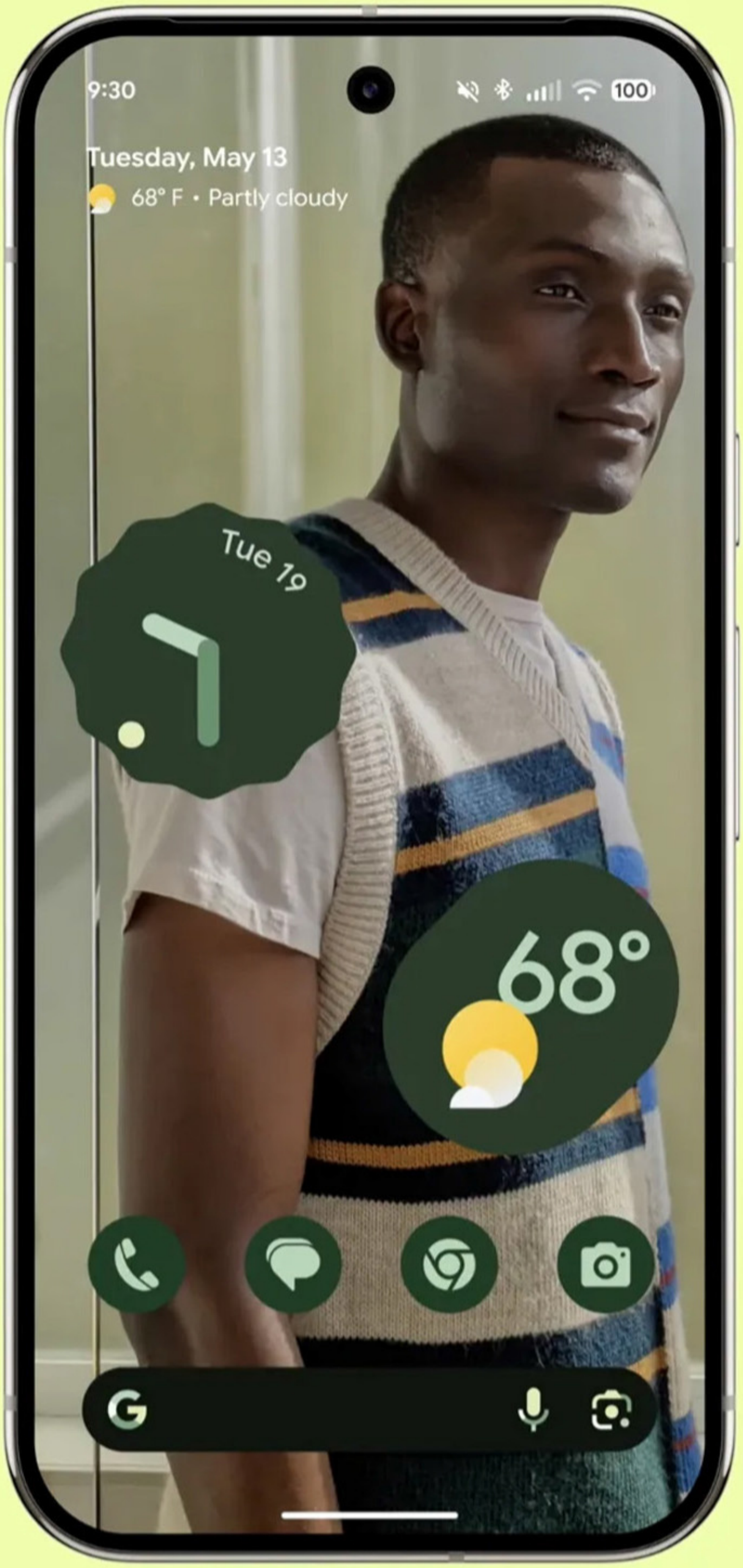
GOOGLE REVEALS BOLD ANDROID REDESIGN BEFORE IPHONE SOFTWARE UPDATE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Google has rolled out a sweeping redesign for its Android operating system, dubbed Material 3 Expressive, marking the most significant visual update in years, as announced this week.

The overhaul, set to debut in its final form later in 2025, introduces a vibrant design language with springy animations, bold shapes, high contrast, and larger typography, aiming to make Android more intuitive and engaging.

For smartphone users, app developers, and the tech industry, the redesign positions Android to compete with Apple's anticipated iOS 19 update, expected to be previewed at WWDC in June 2025, as the world's most-used mobile OS, powering devices from Samsung to Xiaomi, seeks to refresh its look and feel.

Alongside the visual changes, Google introduced enhanced security features, including an expanded AI-powered Scam Detection tool for Google Messages, in-call protection for banking apps, and a new Find Hub to track loved ones' locations.

The redesign, already teased in Android 16 Beta 4 and slated for further showcase at Google I/O starting May 20, will first roll out on Google's Pixel phones, with broader adoption expected across the 2.5 billion active Android devices globally.

The update, crafted with feedback from over 18,000 users, aims to balance aesthetics with functionality, addressing user navigation challenges while competing in a market where AI-driven features are reshaping mobile experiences.

e automotive landscape is undergoing ramatic transformation, with electric icles (EVs) accelerating into the instream. What was once a niche rket is now a rapidly expanding tor, driven by technological ancements, environmental concerns, l evolving consumer preferences. re's a breakdown of the key factors ling this electric revolution.

tery technology continues to prove, leading to increased driving ges and faster charging times. This a...

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Goals
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vailable cash
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Make me a fit that's athleisure but elevated

Andrew Bee
They've just announced more west coast dates!

Camila Sidney
Yesss I've been waiting all month for this.

Mark Dedra
Seattle, Washington

WWDC25

MATERIAL 3 EXPRESSIVE DESIGN LANGUAGE

Android's new design, Material 3 Expressive, features colorful icons, dynamic animations, and larger buttons to guide users more effectively. The interface uses bold shapes and high contrast to highlight key actions, like a prominent "Play" button in music apps or a "Send" button above the keyboard in mail apps, making interactions smoother.

The Settings app now includes card-based menu items, colorful icons, and right-facing arrows for subpages, with a header pinned at the top for easier navigation.

These changes, tested through 46 rounds of research with 18,000 participants, prioritize emotional engagement and usability, especially for older adults, as detailed in Google's announcement.

ENHANCED SECURITY FEATURES

The update bolsters Android's security with an expanded AI-powered Scam Detection tool in Google Messages, now covering financial impersonation, toll road, gift card, prize, and technical support scams, beyond its prior focus on package delivery and job fraud.

A pilot program for in-call protection, starting in the UK, safeguards banking apps by detecting suspicious activity.

The system also ensures major settings changes, like full device resets, require owner authentication to prevent intruder access, addressing rising cybersecurity threats, as outlined in Google's blog post.

These measures aim to protect Android's 2.5 billion active devices, particularly as mobile banking usage grows.

NEW FIND HUB FUNCTIONALITY

Android's Find Hub, a new feature, allows users to track the locations of loved ones or check if they've arrived home safely, integrating with Google's Find My Device network, which supports over 1 billion devices.

The hub enhances safety by providing real-time location updates, competing with Apple's Find My app, which leverages 2.2 billion active devices.

The feature, designed for ease of use, requires user consent and works across Android devices, offering a streamlined interface for family and friend tracking, as confirmed in company statements.

STATUS BAR AND QUICK SETTINGS UPDATES

The redesign tweaks the status bar with new icons for Wi-Fi, mobile data, airplane mode, and battery level, adopting a segmented signal strength indicator for clearer readability. The Quick Settings panel retains its combined layout with notifications but introduces resizable tiles, one-click toggles for Wi-Fi and Bluetooth, and a simplified tile editor.

These changes, hidden in Android 16 Beta 4 and enabled by developers, address user feedback about cluttered interfaces, with background blur effects adding a modern aesthetic, as seen in early previews.

Google
YouTube
Gmail
Chrome
Google Duo
Google
Meet
GooglePodcasts
Drive
Google Photo

Google

The update keeps familiar elements while refining usability for Android's diverse user base.

COMPETITIVE CONTEXT AND TIMING

Google's redesign comes weeks before Apple's expected iOS 19 preview at WWDC, rumored to bring a major design overhaul since iOS 7, with visionOS-inspired elements and AI enhancements.

Android's Material 3 Expressive aims to stay ahead, competing with iOS's 1.4 billion active iPhones by offering a vibrant, user-friendly interface across manufacturers like Samsung, which powers 40% of Android devices. The update's timing, ahead of Google I/O on May 20, leverages Android's 70% global market share to set the tone for mobile OS innovation, as highlighted in industry analyses.

The focus on AI-driven security and tracking aligns with trends seen in Apple's iOS 18.5, which patched 30 vulnerabilities in May 2025.

GOOGLE LAUNCHES AI FUTURES FUND TO SUPPORT STARTUPS WITH MODELS AND TOOLS

Image: Mitchell Luo

Google has introduced the AI Futures Fund, a new initiative to invest in artificial intelligence startups, providing them with capital, early access to advanced AI models, and technical support, as announced this week. The fund, aimed at startups from seed to late stages, offers resources like Google Cloud credits, hands-on guidance from Google researchers and engineers, and potential direct investment opportunities.

For entrepreneurs, investors, and the tech industry, the initiative positions Google as a key player in fostering AI innovation, competing with firms like Microsoft and Amazon in backing the next generation of AI-driven companies.

The fund, led by Anna Patterson, vice president of engineering for AI at Google, builds on the company's history of supporting AI ventures, including investments in Anthropic and Algorithmia.

Eligible startups gain access to models like Gemini 2.5 Pro and tools from Google DeepMind, enhancing their ability to develop cutting-edge applications. With no disclosed fund size, the program has already backed companies like Replit, Fal, Viggle, and Synthesia, reflecting Google's strategy to nurture AI ecosystems while addressing the $1.92 trillion market's demand for innovative solutions.

AI

AI FUTURES FUND STRUCTURE AND BENEFITS

The AI Futures Fund targets startups leveraging AI for diverse applications, offering financial investment, Google Cloud credits up to $350,000 over two years, and access to DeepMind's advanced models, such as Gemini 2.5 Pro.

Startups receive mentorship from Google's researchers, engineers, and go-to-market specialists, with opportunities for direct funding to scale development.

The program, open for applications since May 12, 2025, supports founders building products from initial concepts to mature solutions, as outlined in Google's announcement.

STARTUP ELIGIBILITY AND SUPPORT

Eligible startups must demonstrate a focus on AI as a core technology, with scalable products and significant market potential. The fund prioritizes companies from seed to Series A stages, though later-stage startups are also considered. Participants gain access to Google's infrastructure, including Vertex AI for model deployment and Gemini 2.0 for robotics applications, alongside technical bootcamps and networking with industry experts.

The support mirrors Google's 2024 AI Startup Program, which offered $250,000 in Cloud credits, but expands with direct investment options, as detailed in company statements.

Goo

GOOGLE'S EXISTING AI INVESTMENTS

Google has a track record of backing AI startups, with a 14% stake in Anthropic, valued at over $3 billion, and past investments in Algorithmia, acquired in 2021.

The AI Futures Fund builds on these efforts, having already supported Replit for coding platforms, Fal for AI infrastructure, Viggle for video generation, and Synthesia for synthetic media.

These investments leverage Google's expertise in models like Gemma 3, designed for on-device AI, to foster innovation across sectors, as confirmed by recent funding announcements.

COMPETITIVE LANDSCAPE AND STRATEGY

The fund positions Google against competitors like Microsoft, which backs OpenAI with $13 billion, and Amazon, investing in generative AI startups. Perplexity AI's $14 billion valuation raise in May 2025 highlights the sector's growth, with U.S. AI startups capturing 46.4% of $209 billion in venture funding in 2024.

Google's strategy emphasizes open ecosystems, providing startups with tools like Google Cloud's AI platform to avoid vendor lock-in, contrasting with proprietary models from rivals, as noted in industry analyses.

REGULATORY AND MARKET IMPLICATIONS

The initiative comes amid increased scrutiny of Big Tech's AI investments, with regulators examining deals like Google's Anthropic stake for anticompetitive risks. The U.S. Department of Justice's 2024 rulings against Google's search and ad tech monopolies, including a $1.375 billion Texas settlement, add pressure to demonstrate fair practices.

The fund's focus on diverse startups aims to foster competition, aligning with Google's $75 billion AI investment in 2025, which supports infrastructure and tools for broader innovation, as detailed in financial reports.

ESPN LAUNCHES DIRECT-TO-CONSUMER STREAMING SERVICE AT $29.99, RESHAPING SPORTS IN THE STREAMING WARS

ESPN will debut its highly anticipated direct-to-consumer streaming service, simply named "ESPN," in September 2025, priced at $29.99 per month, as announced this week. The platform will offer access to all ESPN networks, including SEC, Big Ten, and ACC college leagues, alongside ESPN+ content, marking a historic shift from cable dependency.

For sports fans, streaming enthusiasts, and industry observers, this launch represents a pivotal moment in the streaming wars, where platforms like Netflix, Disney+, Apple TV+, Paramount+, Hulu, and Max have battled for dominance over the past decade, with sports now emerging as a critical battleground.

The service, which also offers a $299.99 annual plan and a $35.99 monthly bundle with Disney+ and Hulu ($29.99 for the first year), aims to deliver 47,000 live events annually, enhanced by AI-driven personalization, betting integration, and a revamped ESPN app. As ESPN joins the fray, the streaming wars—once defined by scripted dramas and blockbuster films—have evolved to prioritize live sports, with Apple TV+ securing MLS and MLB rights, Max adding NHL and NBA games, and others vying for premium content.

ESPN'S STREAMING SERVICE: FEATURES AND STRATEGY

The new ESPN streaming platform will encompass all seven domestic linear networks, ESPN on ABC, and ESPN+'s 30,000 annual live events, including NFL, NBA, MLB, NHL, and college sports, alongside studio shows like SportsCenter and First Take. Priced at $29.99 monthly, it offers a standalone "unlimited" plan

Disney+
ESPN+
hulu

Twin Cities
56
56
Wilson

or a $11.99-per-month "select" plan for ESPN+ content only, with a bundle option combining ESPN, Disney+, and Hulu for $35.99 monthly ($29.99 introductory rate for the first year).

An annual subscription costs $299.99, saving roughly $60 compared to monthly payments. The service, launching in early fall, will integrate betting, statistical analysis, and a personalized "SportsCenter" using AI to tailor content to users' favorite teams, as stated by ESPN Chairman Jimmy Pitaro.

The platform will link to other services for events ESPN doesn't own, like NFL games on Amazon Prime Video, ensuring fans can access all major sports.

The revamped ESPN app, available on mobile and connected TV devices, will serve as a one-stop hub, with features like enhanced navigation and commerce options for merchandise. Pitaro emphasized the brand's trust and recognition, noting the decision to name the service "ESPN" reflects its legacy since 1979, aiming to cut through the cluttered streaming landscape.

EVOLUTION OF THE STREAMING WARS: FROM NETFLIX TO SPORTS

The streaming wars began in 2007 when Netflix transitioned from DVD rentals to streaming, offering unlimited movies and TV shows for $7.99 monthly. By 2013, Netflix's pivot to originals like House of Cards disrupted traditional TV, growing its subscriber base to 44 million. The platform's $17 billion content spend in 2020, producing hits like Stranger Things, set a high bar, with 282 million global subscribers by 2024 generating $38 billion in revenue. Netflix's early dominance forced competitors to adapt, sparking a race for exclusive content and scale.

Disney+ launched in November 2019, leveraging Marvel, Star Wars, and Pixar to amass 157.8 million subscribers by 2023, though it lost 4 million in early 2025, settling at 153.8 million. Priced at $9.99 monthly (ad-free) or $7.99 (with ads), Disney+ bundled with Hulu and ESPN+ for $16.99 to $26.99, integrating content into a single app by 2024 for seamless access.

Hulu, with 48 million subscribers, offers next-day network shows for $9.99 monthly (with ads) or $18.99 (ad-free), while its Hulu + Live TV plan at $82.99 includes 95+ channels, ESPN+, and Disney+. The bundle's value, saving up to $13 monthly, has driven retention despite price hikes.

Apple TV+, priced at $9.99 monthly, focuses on premium originals like Ted Lasso and Severance, reaching an estimated 25 million subscribers by 2024. Its ad-free model and integration with Apple's 2.2 billion devices make it a niche but growing player, with sports rights like MLS ($13 monthly pass) and select MLB games enhancing its appeal.

Paramount+, at $7.99 (with ads) or $12.99 (with Showtime, ad-free), hosts CBS sports, NFL games, and originals like Yellowstone prequels, with 71 million subscribers by 2024. Max, formerly HBO Max, offers ad-supported ($9.99) and ad-free ($16.99) tiers, boasting 103 million subscribers and sports like NHL and NBA, bolstered by Warner Bros. Discovery's $22 billion content budget in 2024.

The streaming wars initially centered on scripted content, but live sports have become

ALL OF ESPN.
ALL IN ONE PLACE.

a differentiator. Netflix entered sports with NFL Christmas games in 2024 and WWE's Raw in 2025, while Amazon Prime Video's $1.8 billion Thursday Night Football deal and YouTube's $2 billion NFL Sunday Ticket package highlight the shift.

ESPN's $29.99 service, with 47,000 live events, aims to dominate this space, competing with Apple TV+'s MLS pass, Max's NHL offerings, and Paramount+'s UEFA Champions League coverage.

SPORTS AS THE NEW STREAMING BATTLEGROUND

Sports streaming has surged due to its ability to draw live audiences, a rarity in an on-demand era. ESPN's cable dominance, with 100 million subscribers by 2011 and $10 monthly per-subscriber fees, built a $50 billion business by 2020, but cord-cutting reduced its reach to 70 million by 2024.

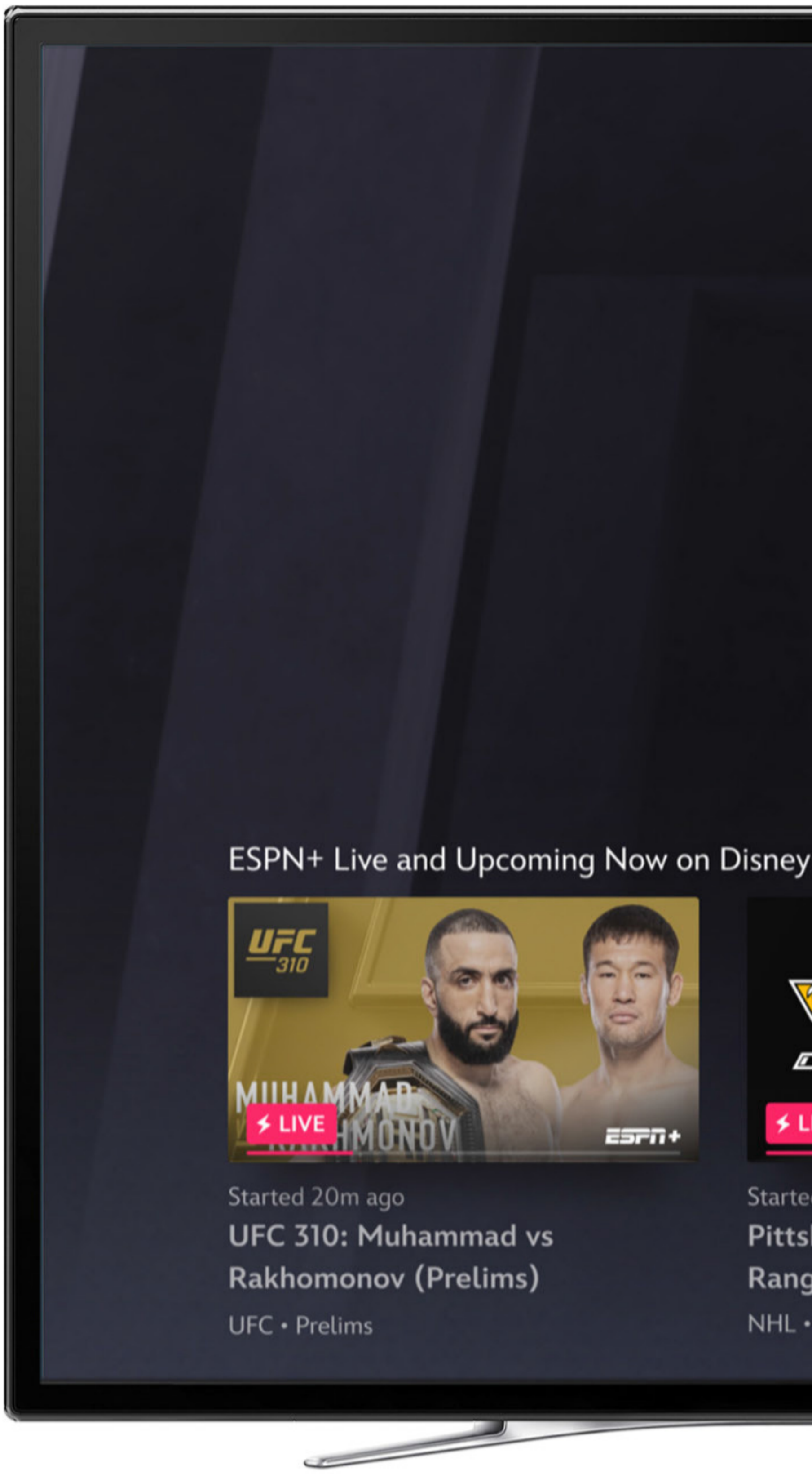
The new service, offering all ESPN content for $29.99, targets these cord-cutters, integrating ESPN+'s 25.2 million subscribers and exclusive rights to NFL, NBA, MLB, NHL, and 40 college championships. The platform's AI-driven personalization, like a tailored SportsCenter, and betting features aim to engage younger fans, with 47% of U.S. sports viewers under 35 preferring streaming, per 2024 Nielsen data.

Apple TV+'s sports strategy focuses on niche but growing markets, securing a 10-year, $2.5 billion MLS deal in 2022 and select MLB Friday night games for $85 million annually. Its ad-free, high-quality streams appeal to fans, with the MLS Season Pass ($13 monthly) offering every game, a model ESPN's service may emulate for premium events.

Max, with Warner Bros. Discovery's $9 billion sports rights portfolio, streams NHL, NBA, and NCAA March Madness, leveraging its 103 million subscribers to compete with ESPN's broader offerings. Paramount+'s CBS sports, including NFL and UEFA, draws viewers, but its 71 million subscribers lag behind ESPN's potential reach.

Netflix's sports pivot, starting with NFL games and WWE in 2025, targets its 282 million subscribers, though its focus remains on scripted originals.

Amazon's Thursday Night Football, reaching 12.3 million average viewers per game in 2024, and YouTube's NFL Sunday Ticket, with 1.3 million subscribers, show streaming's sports potential, but ESPN's comprehensive portfolio—covering 47,000 events—sets a high bar. Hulu's live TV tier, at $82.99, includes ESPN networks, but its sports offerings are less extensive than the new ESPN service, which consolidates all content in one app.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EVOLUTION OF THE STREAMING WARS: 2015-2025

The streaming wars evolved through three phases: content wars (2015-2019), platform consolidation (2020-2022), and sports-driven differentiation (2023-2025). In 2015, Netflix's 70 million subscribers and $6 billion content budget outpaced HBO Now's 800,000, setting the stage for competition.

By 2019, Disney+, Apple TV+, and HBO Max launched, with Disney+ hitting 10 million subscribers in its first day, driven by The

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Mandalorian. The content wars saw Netflix spend $15 billion in 2019, while Disney allocated $28 billion across its platforms in 2020, fueling originals like WandaVision.

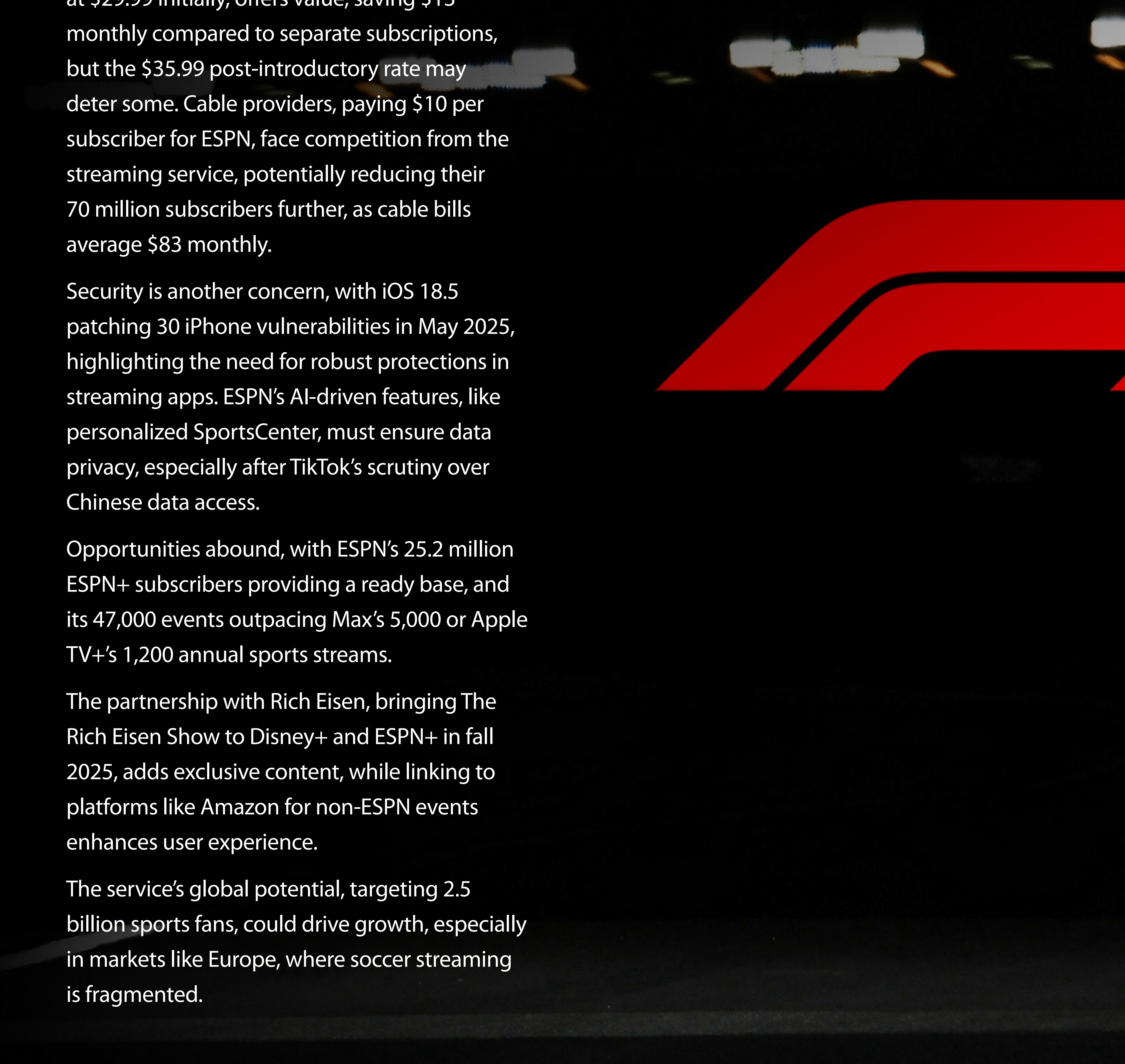
The consolidation phase began in 2020 as cord-cutting surged, with 50% of U.S. TV homes (60 million) abandoning cable by 2023. Bundles emerged as a strategy, with Disney's $16.99 Disney+, Hulu, ESPN+ trio gaining traction, while Max merged HBO and Discovery+ content in 2023.

Paramount+ absorbed Showtime in 2022, and Hulu integrated into Disney+'s app by 2024, streamlining access. Price hikes followed, with Netflix's ad-free tier rising to $15.49 by 2024, Disney+ to $15.99, and Max to $16.99, reflecting rising content costs and ad-tier adoption (Netflix's ad-supported plan hit 70 million subscribers by 2024).

Since 2023, sports have driven differentiation, as live events counter streaming fatigue. ESPN's service, with its unmatched rights to NFL ($10 billion annually), NBA ($2.6 billion), and college football ($7 billion), positions it as a sports streaming leader.

Apple TV+'s MLS and MLB deals, Max's NHL and NBA coverage, and Paramount+'s NFL games reflect this trend, with sports rights costs projected to hit $30 billion annually by 2030. Netflix's $5 billion WWE deal and Amazon's $1 billion NBA package for 2025 show the shift, but ESPN's 47,000 events dwarf competitors' offerings.

CHALLENGES AND OPPORTUNITIES FOR ESPN'S SERVICE



ESPN's $29.99 price, higher than Netflix's $15.49 or Apple TV+'s $9.99, reflects its premium sports content but risks alienating cost-conscious viewers, with U.S. streaming subscriptions averaging $924 annually, per Bango's 2024 survey. The bundle with Disney+ and Hulu, at $29.99 initially, offers value, saving $13 monthly compared to separate subscriptions, but the $35.99 post-introductory rate may deter some. Cable providers, paying $10 per subscriber for ESPN, face competition from the streaming service, potentially reducing their 70 million subscribers further, as cable bills average $83 monthly.

Security is another concern, with iOS 18.5 patching 30 iPhone vulnerabilities in May 2025, highlighting the need for robust protections in streaming apps. ESPN's AI-driven features, like personalized SportsCenter, must ensure data privacy, especially after TikTok's scrutiny over Chinese data access.

Opportunities abound, with ESPN's 25.2 million ESPN+ subscribers providing a ready base, and its 47,000 events outpacing Max's 5,000 or Apple TV+'s 1,200 annual sports streams.

The partnership with Rich Eisen, bringing The Rich Eisen Show to Disney+ and ESPN+ in fall 2025, adds exclusive content, while linking to platforms like Amazon for non-ESPN events enhances user experience.

The service's global potential, targeting 2.5 billion sports fans, could drive growth, especially in markets like Europe, where soccer streaming is fragmented.

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Snapdragon
Ray-Ban
Ray-Ban
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Palantir
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COMPETITIVE LANDSCAPE AND FUTURE OUTLOOK

The streaming wars' sports focus has intensified competition. Apple TV+'s MLS deal, with 2 million subscribers to its $13 pass, and Max's NHL streams, averaging 1.5 million viewers per game, are strong but niche. Paramount+'s 71 million subscribers access NFL games, but its $12.99 premium tier lacks ESPN's breadth.

Netflix's 282 million subscribers dwarf competitors, but its sports offerings, like NFL Christmas games, are limited to 10 events annually. Amazon's 200 million Prime users and YouTube's 100 million Premium subscribers leverage scale, but their sports rights ($3 billion combined) pale against ESPN's $20 billion.

Google's Android redesign in May 2025, with AI-driven scam detection, and Perplexity AI's $14 billion valuation raise highlight AI's role in user engagement, a trend ESPN's personalized app mirrors.

Regulatory pressures, like the U.S. Department of Justice's 2024 rulings against Google's $20 billion Safari deal, and Michigan's TikTok ban on state devices, suggest scrutiny for streaming giants, with ESPN's Disney ownership potentially facing similar challenges.

The streaming market, projected to reach $350 billion by 2030, will hinge on sports, with ESPN's service poised to lead if it navigates pricing, security, and carrier dynamics effectively.

ESPN

PERPLEXITY AI SECURES $500 MILLION FUNDING ROUND AT $14 BILLION VALUATION

Perplexity AI, a San Francisco-based startup developing an AI-powered search engine, is finalizing a $500 million funding round at a $14 billion valuation, marking its second major capital raise in six months, as announced this week.

The round, led by venture capital firm Accel, follows a $500 million raise in December 2024 that valued the company at $9 billion, reflecting intense investor enthusiasm for Perplexity's generative AI technology.

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For investors, developers, and tech industry observers, the funding underscores Perplexity's rapid growth and its ambition to challenge Google's search dominance, with nearly 100 million in annual recurring revenue (ARR) and 230 million monthly queries.

The company, founded in 2022 by Aravind Srinivas, Andy Konwinski, Denis Yarats, and Johnny Ho, has raised over $1.1 billion to date, with backers including Nvidia, Jeff Bezos, and SoftBank.

Perplexity's AI search tools, competing with OpenAI's ChatGPT and Google's Gemini, deliver summarized web answers with citations, supported by a free tier and an enterprise Pro offering.

Despite its growth, Perplexity faces plagiarism accusations from media outlets like The New York Times, prompting a revenue-sharing model for publishers launched in July 2024.

The funding will fuel expansion of its enterprise solutions and a new AI browser, Comet, as competition in AI search intensifies.

FUNDING ROUND DETAILS

Perplexity is set to close a $500 million funding round led by Accel, valuing the startup at $14 billion, up from $9 billion in December 2024. The round, smaller than the initially targeted $500 million to $1 billion at an $18 billion valuation, reflects cautious investor sentiment amid market volatility.

The company has raised over $1.1 billion since its inception, with a $73.6 million Series B in January 2024 at a $520 million valuation and a $62.7 million round in April 2024 at $1 billion.

Notable investors include Sequoia, Bessemer, Nvidia, Databricks, and individuals like Jeff Bezos and Yann LeCun, as confirmed by company statements.

AI SEARCH ENGINE CAPABILITIES

Perplexity's search platform uses multiple large language models, including OpenAI's GPT-4, Anthropic's Claude, and Meta's Llama-3, to provide accurate, cited responses to user queries.

The free tier handles over 230 million monthly queries, while the $40-per-month Enterprise Pro offering, used by firms like Bridgewater Associates and the Cleveland Cavaliers, supports internal document searches with enhanced security.

The platform processed 75 million U.S. queries in 2024, an eightfold increase from the prior year, demonstrating its growing user base, which exceeds 15 million active users.

perplexit

PLAGIARISM CONTROVERSY AND PUBLISHER PROGRAM

Perplexity has faced accusations of plagiarizing content from media outlets, including The New York Times, which issued a cease-and-desist notice in October 2024, and News Corp, which filed a copyright infringement lawsuit the same month.

The company denies the claims, launching a revenue-sharing Publishers Program in July 2024, partnering with outlets like Fortune, Time, and The Texas Tribune.

The program shares ad revenue when articles are cited in answers, with triple revenue for multiple citations, aiming to enroll 30 publishers by year-end, as stated by chief business officer Dmitry Shevelenko.

ENTERPRISE AND BROWSER EXPANSION

Perplexity is enhancing its Enterprise Pro product, offering businesses access to advanced AI models for secure internal searches, competing with Microsoft's Copilot.

The company recently introduced finance-related features, such as stock price lookups and earnings data analysis, to attract corporate clients.

Additionally, Perplexity is developing Comet, an "agentic" AI browser teased in March 2025, designed to streamline web interactions, positioning it against Google's AI Mode and Anthropic's Claude search, both launched earlier this year.

These expansions leverage the company's 80,000-strong developer network, as noted in investor presentations.

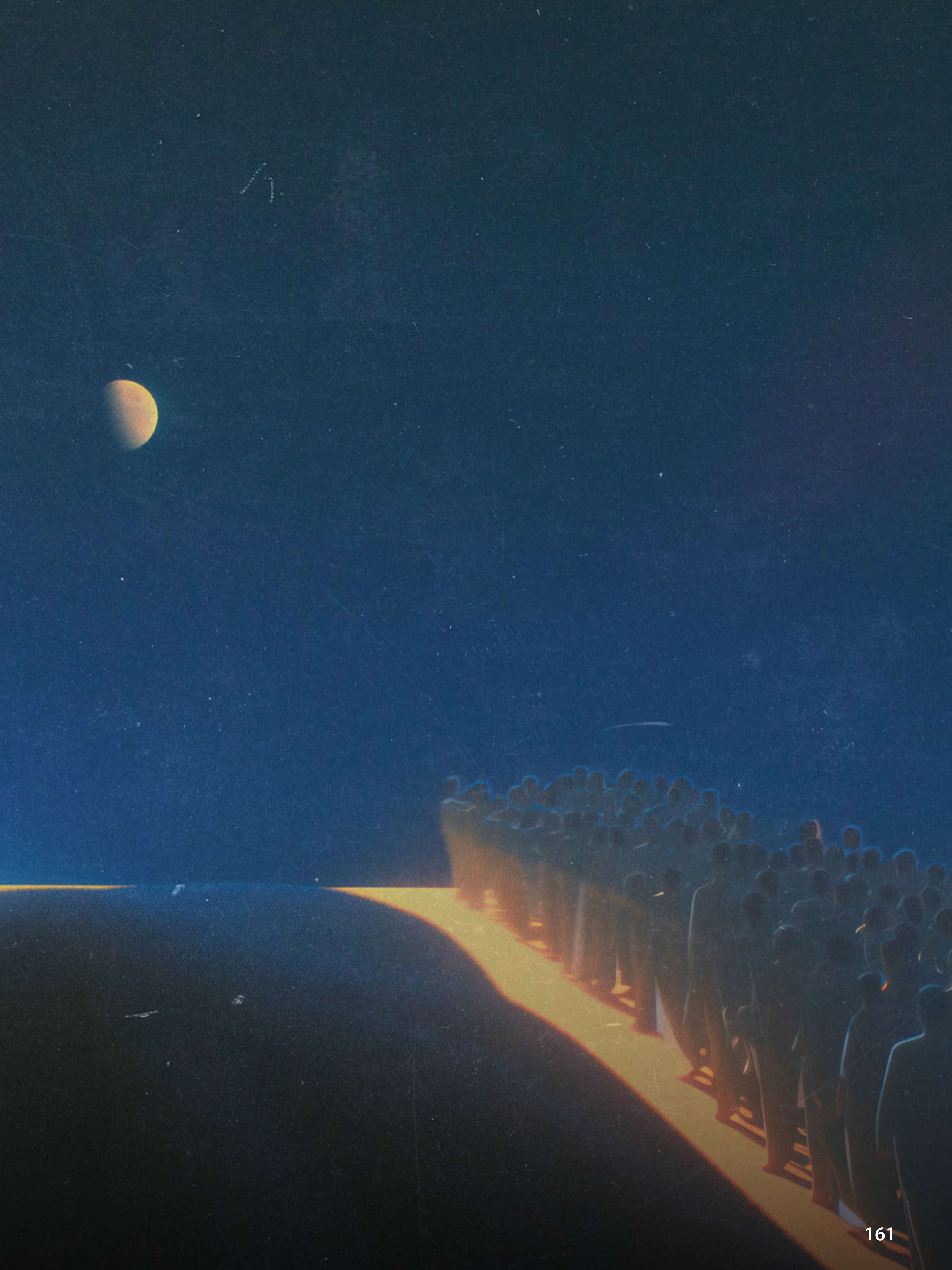
COMPETITIVE LANDSCAPE AND MARKET POSITION

Perplexity competes with Google, which holds over 90% of U.S. search queries, and OpenAI, whose ChatGPT search feature, launched in October 2024, supports real-time queries for 400 million weekly users.

Anthropic's Claude web search, introduced in March 2025, further intensifies competition.

Apple's potential integration of Perplexity's search into Safari, alongside OpenAI, could boost its visibility, as Eddy Cue testified in a May 2025 antitrust trial.

Despite generating nearly $100 million in ARR, Perplexity's high compute costs, estimated at millions monthly, drive its frequent fundraising, as highlighted by industry analysts.



TOYOTA SIMPLIFIES NAME AND UPGRADES TECH FOR ITS SOLE U.S. ELECTRIC VEHICLE

Toyota has unveiled a revamped version of its only all-electric vehicle in the U.S., renaming the bZ4X to simply "bZ" and introducing significant technological upgrades for the 2026 model year, as announced this week.

The redesigned bZ, set to hit dealerships in the second half of 2025, boasts a 25% increase in driving range, up to 50% more horsepower, and a North American Charging Standard (NACS) port for Tesla Supercharger compatibility.

For electric vehicle (EV) buyers, auto enthusiasts, and industry observers, the update addresses

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past criticisms of the bZ4X, which struggled with lackluster performance and a recall for detaching wheels, aiming to boost Toyota’s presence in the competitive U.S. EV market.

The bZ now offers a range of up to 314 miles, a new battery preconditioning system, and a refreshed interior with a 14-inch touchscreen, positioning it to rival models like the Tesla Model Y and Ford Mustang Mach-E. With U.S. EV sales reaching 299,100 units in Q1 2025, up 11.4% year-over-year per Cox Automotive, Toyota’s move reflects a cautious but deliberate step to strengthen its electrified portfolio, despite selling only 18,570 bZ4X units in 2024.

The changes, crafted for publication on Friday, May 16, 2025, signal Toyota’s effort to refine its sole U.S. EV offering while navigating a market increasingly shaped by tariffs and consumer demand for efficiency.

NEW NAME AND EXTERIOR DESIGN

Toyota has streamlined the bZ4X’s name to “bZ,” dropping the alphanumeric suffix to simplify branding, a move aimed at making the vehicle more approachable for American buyers. The 2026 bZ features a redesigned exterior with a “hammerhead” front end, aligning with updated Toyota models like the Camry and Crown, and includes modernized headlights and taillights for a sleeker look.

The exterior refresh addresses earlier critiques of the bZ4X’s uninspired design, which Motor Trend labeled a “compliance car” in 2022, lacking the flair of competitors.

The styling upgrades, combined with the simplified name, aim to enhance the bZ’s

competitiveness in a market where EVs like the Hyundai Ioniq 5 and Kia EV6 have gained traction for their bold aesthetics.

ENHANCED RANGE AND PERFORMANCE

The 2026 bZ offers a 25% increase in driving range, now up to 314 miles, compared to the bZ4X's 252 miles, thanks to new battery options of 57.7 kWh or 74.7 kWh, up from the previous 63.4 kWh or 65.6 kWh packs. Horsepower has improved by up to 50%, with estimates suggesting 300 horsepower for top trims, addressing the bZ4X's sluggish performance that drew criticism.

A new battery preconditioning system optimizes fast-charging, reducing times to under 30 minutes for an 80% charge, a significant leap from the bZ4X's slower charging capabilities.

The inclusion of a NACS port allows access to Tesla's Supercharger network, enhancing charging convenience for U.S. drivers, a feature increasingly adopted by rivals like Ford and GM. These upgrades aim to make the bZ a more compelling option in a market where range and charging speed are critical.

INTERIOR AND TECHNOLOGY UPGRADES

The bZ's interior has been overhauled with a 14-inch touchscreen, replacing the bZ4X's 12.3-inch display, offering improved responsiveness and integration with Apple CarPlay and Android Auto.

A redesigned instrument panel, upgraded center console, and customizable ambient

lighting with 64 color choices enhance the cabin's appeal.

The interior upgrades address user complaints about the bZ4X's dated interface, with new features like voice-activated controls and over-the-air updates aligning with industry trends seen in vehicles like the Tesla Model 3.

Safety systems have also been refined, with Toyota Safety Sense 3.0 adding enhanced lane-keeping assist and adaptive cruise control, building on the bZ4X's recall-plagued debut in 2022, which involved wheels detaching due to loose bolts. The updates aim to restore consumer trust in Toyota's EV reliability.

MARKET CONTEXT AND SALES PERFORMANCE

Toyota sold 18,570 bZ4X units in the U.S. in 2024, a modest figure compared to the 299,100 EVs sold industry-wide in Q1 2025, up 11.4% from the prior year, according to Cox Automotive.

The bZ4X, launched in late 2022, faced challenges, including a recall for wheel detachment and reviews panning its 222-252-mile range and slow charging, limiting its appeal against competitors like the Tesla Model Y, which sold over 400,000 units in 2024. The 2026 bZ's upgrades, including a 314-mile range and NACS compatibility, target these shortcomings, positioning it to capture a larger share of the $60 billion U.S. EV market.

Toyota's cautious EV strategy, with only 145,000 of its 10.2 million global vehicle sales in 2024 being fully electric, contrasts with rivals like BYD, which sold 195,740 EVs in April 2025 alone. The company plans to launch 15 EV models globally by 2027, targeting 1 million annual units, but the bZ remains its sole U.S. offering, reflecting a focus on hybrids amid U.S. tariff pressures.

COMPETITIVE LANDSCAPE AND TARIFF IMPACTS

The bZ enters a U.S. EV market shaped by President Trump's 25% tariffs on imported vehicles and parts, effective since April 2025, which hit automakers like Volvo, with an 11% sales drop, and Mazda, reliant on foreign production.

Toyota, producing 60% of its U.S.-sold vehicles domestically, including the RAV4 and Corolla, mitigates some tariff impacts, but the bZ's pricing, starting at $37,000 for the 2025 model, may rise, with estimates suggesting a $40,000-$45,000 range for 2026, pending announcement.

Competitors like the Ford Mustang Mach-E ($39,995) and Hyundai Ioniq 5 ($41,800) offer similar ranges, intensifying price competition.

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MICROSOFT CUTS THOUSANDS OF JOBS WHILE BOLSTERING AI INVESTMENTS

Microsoft is trimming its global workforce by about 6,000 jobs, roughly 3% of its 228,000 employees, while pouring significant resources into artificial intelligence, as announced this week.

The layoffs, affecting various teams and levels worldwide, mark the company's largest workforce reduction since slashing 10,000 roles in 2023. For employees, investors, and the tech industry, the move highlights Microsoft's strategic pivot toward AI-driven growth, balancing cost-cutting with investments in cutting-edge technology to stay competitive in a $2 trillion market.

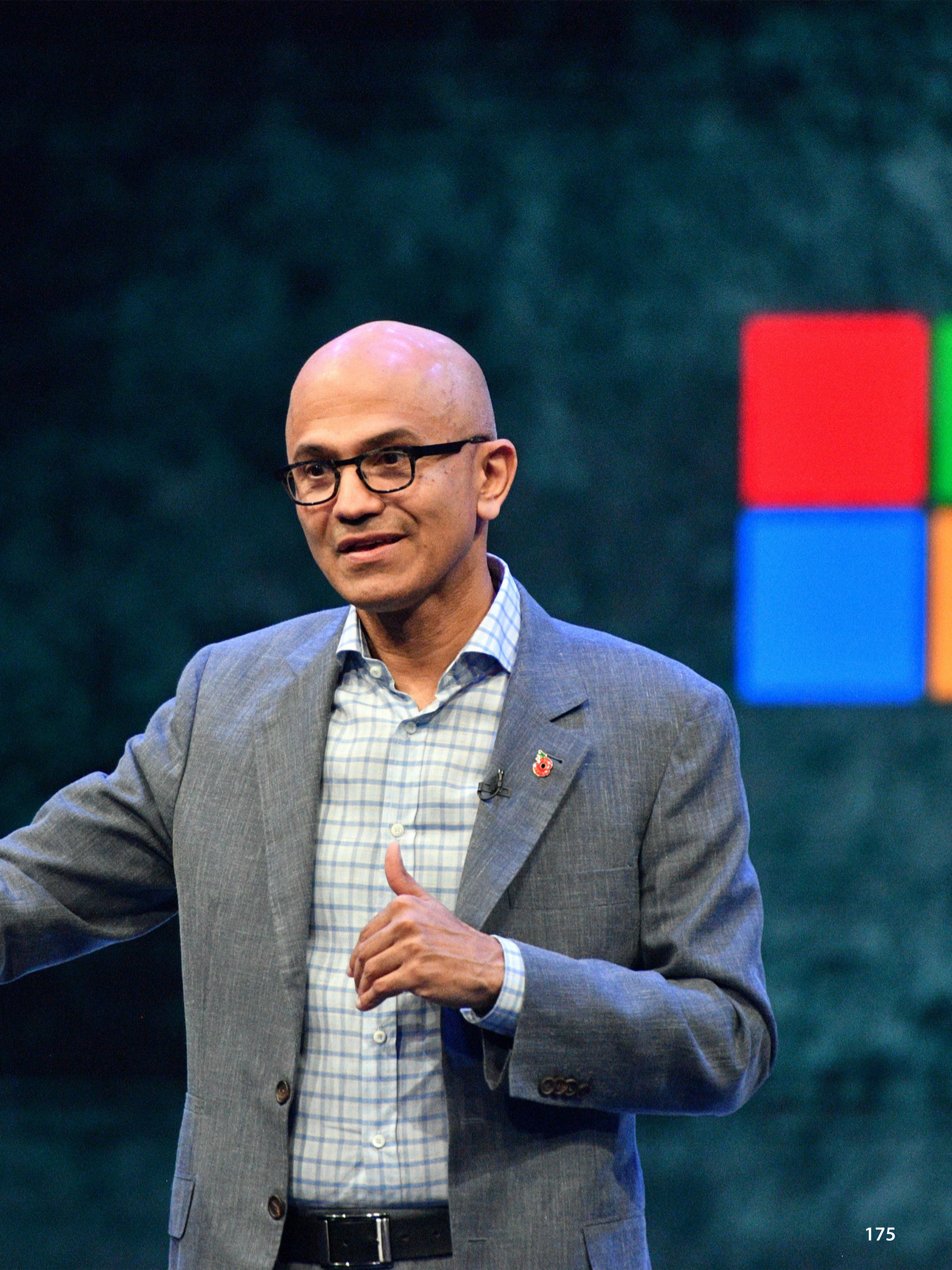
The cuts, not tied to performance but to a focus on high-priority areas like AI, aim to streamline operations, with CEO Satya Nadella emphasizing smarter resource allocation after slower-than-expected Azure cloud growth outside AI.

Meanwhile, Microsoft's $80 billion AI spending this fiscal year, with over half in the U.S., underscores its commitment to leading the global AI race, as outlined in recent executive statements.

The layoffs, paired with this aggressive AI push, reflect broader tech industry trends where companies like Meta and Amazon are also slashing jobs to fund AI innovation, raising questions about workforce impacts in a rapidly evolving sector.

LAYOFF DETAILS AND SCOPE

Microsoft plans to eliminate approximately 6,000 positions, representing less than 3% of its 228,000-strong workforce as of June 2024, across different levels, teams, and regions.



The reductions target middle managers while prioritizing coders over non-technical roles, aligning with the company's focus on technical expertise for AI development. Affected employees will receive at least 12 weeks of pay, with no performance-based criteria driving the cuts, as confirmed by a company spokesperson.

This follows a smaller, performance-based layoff in January 2025, distinct from the current strategic realignment.

The layoffs, the largest since 2023's 10,000 job cuts, aim to optimize operations amid a push for profitable growth, particularly in AI and cloud computing, as the company navigates market demands for efficiency.

AI INVESTMENT AND STRATEGIC PRIORITIES

Microsoft is allocating over $80 billion this fiscal year to AI infrastructure, with more than $40 billion directed to U.S.-based data centers and computing resources, supporting its leadership in AI innovation. The investment, detailed in a company blog post, fuels advancements like Microsoft 365 Copilot, which automates tasks such as creating 1,000 operating procedures for customer service in 10 minutes, down from an hour, as implemented by Eaton.

The company's Azure AI services, used by firms like eClinicalWorks to process thousands of medical faxes annually, drive its cloud strategy, despite slower non-AI Azure growth prompting the layoffs.

Nadella's vision emphasizes AI's transformative potential, with initiatives like the AI Futures Fund backing startups to expand the ecosystem, a move echoed by Google's recent fund launch.

WORKFORCE IMPACT AND EMPLOYEE SUPPORT

The layoffs affect around 6,000 employees globally, with Microsoft committing to support impacted workers through severance packages including at least 12 weeks of pay, though specific details on additional benefits were not disclosed.

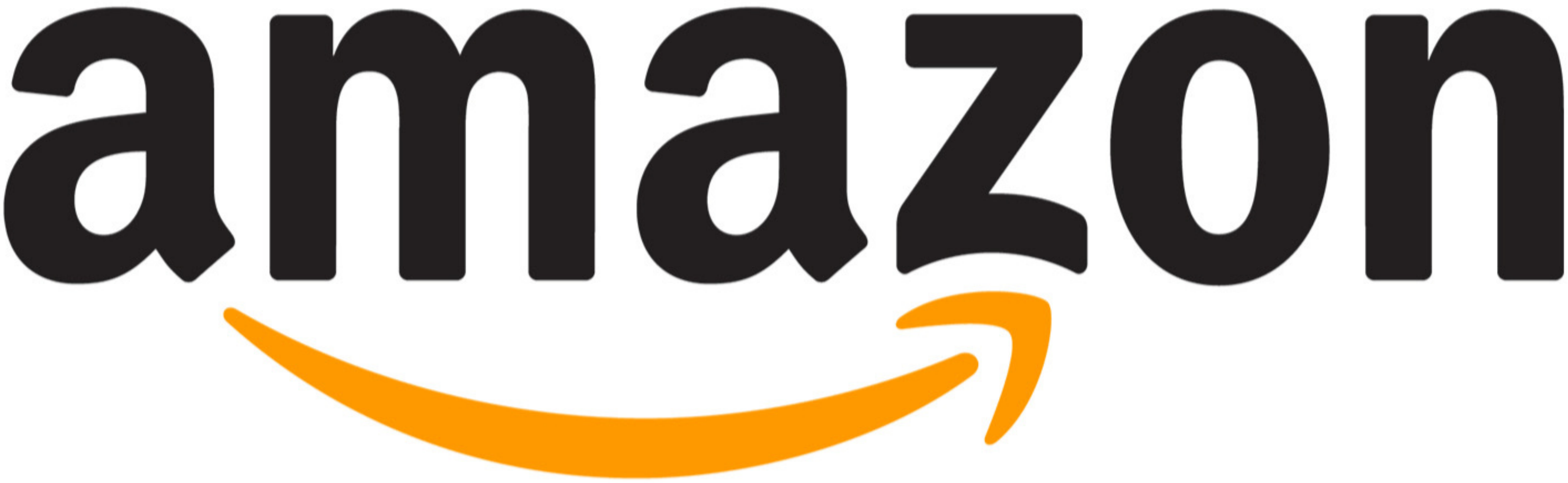
The cuts span various divisions, including some in Xbox and gaming, following earlier concerns raised in January 2025 about AI-driven job losses in that sector.

The focus on reducing middle managers aims to flatten hierarchies, increasing the proportion of technical roles to drive AI projects, as noted in company communications.

Microsoft's approach contrasts with its 2023 layoffs, which targeted 10,000 roles amid broader tech industry downsizing, and reflects a shift toward surgical trims aligned with AI priorities, ensuring resources for high-growth areas.

INDUSTRY TRENDS AND AI-DRIVEN RESTRUCTURING

The layoffs align with a tech industry trend where companies like Meta, Amazon, and Salesforce have cut jobs to fund AI initiatives, with 41% of global firms surveyed by the World Economic Forum in 2024 expecting workforce reductions due to AI over five years.


amazon

Meta reduced staff in Reality Labs, Amazon trimmed AWS and retail tech teams, and Salesforce restructured for AI-focused growth, each citing efficiency and long-term profitability.

Microsoft's cuts, alongside its $13 billion investment in OpenAI, position it to compete with Google's $75 billion AI spend and Amazon's generative AI efforts, as the industry shifts toward automation and AI-driven workflows.

The trend raises concerns about job displacement, with posts found on X noting Microsoft's claim that 30% of its coding is now AI-driven, amplifying fears of broader impacts.

REGULATORY AND MARKET CONTEXT

Microsoft's layoffs come amid regulatory scrutiny, with the U.S. Department of Justice examining its $13 billion OpenAI partnership for potential anticompetitive practices, as reported in May 2025.

The company's $80 billion AI investment, while a growth driver, faces market pressures, with slower Azure cloud revenue growth outside AI prompting Nadella to prioritize cost control. The tech sector's $209 billion in U.S. venture funding in 2024, with 46.4% for AI startups like Perplexity, underscores the high stakes, as Microsoft balances workforce reductions with innovation to maintain its $3 trillion valuation against competitors like Google and Amazon.

The layoffs, reflecting a strategic pivot, position Microsoft to lead in AI while navigating a complex regulatory and economic landscape, with implications for its 228,000 employees and the broader industry.

BAIDU PLANS DRIVERLESS TAXI LAUNCH IN EUROPE, TARGETING SWITZERLAND AND TURKEY

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Apollo GO 新主场
无人驾驶真体验
apollo GO
Autonomous Driving

Every mile counts
to the future.

Chinese tech giant Baidu is gearing up to test its driverless ride-hailing service, Apollo Go, in Europe for the first time, with plans to establish a local entity in Switzerland and begin trials by the end of 2025, as reported last week by The Wall Street Journal.

The move, which also includes launching in Turkey, marks Baidu's bold push into global markets amid fierce competition in China's autonomous vehicle sector. For European commuters, regulators, and the global tech industry, this expansion signals a new chapter in the race for self-driving technology, challenging established players like Waymo and Uber in a $2 trillion mobility market.

Apollo Go, already operational in over a dozen Chinese cities with a fleet of more than 400 vehicles in Wuhan, aims to leverage its experience to navigate Europe's regulatory landscape.

Baidu has held discussions with Switzerland's PostAuto, a public bus operator, though Swiss Post clarified no formal partnership exists. The company's strategy, fueled by its AI prowess and Baidu Maps integration, positions it to compete in a region where electric vehicle sales hit 15.2% of new cars in Q1 2025.

APOLLO GO'S EUROPEAN EXPANSION PLANS

Baidu intends to set up a Swiss entity in the coming months, aiming to start testing Apollo Go's driverless taxis in Switzerland by December 2025. The company has been in talks with PostAuto, a division of Swiss Post, to explore launching the service, though Swiss Post stated no agreement is in place, emphasizing its own focus

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on future mobility needs. Baidu's plans extend to Turkey, where it seeks to deploy its robotaxi technology, though details on timelines and partners remain sparse. The expansion builds on Apollo Go's success in China, where it operates in cities like Beijing, Shanghai, and Wuhan, delivering over 8 million rides by November 2024.

The move into Europe and Turkey reflects Baidu's strategy to scale globally, following trials in Hong Kong and Dubai.

Switzerland's stable regulatory environment and Turkey's growing tech hub status make them strategic entry points, with Baidu eyeing partnerships to navigate local rules.

Social media buzz on X highlights the ambition, with users noting Baidu's challenge to European transport norms, though some question how Turkish taxi drivers, who protested Uber in 2018, will react.

TECHNOLOGY BEHIND APOLLO GO

Apollo Go's driverless taxis, powered by Baidu's Apollo platform, rely on a sophisticated mix of AI, high-definition mapping, and sensor fusion.

The RT6 model, built with Jiangling Motors, features advanced radar, LiDAR, and cameras, enabling Level 4 autonomy—full self-driving in designated areas without human intervention. Baidu's AI, honed through its search engine and cloud services, processes real-time data to navigate complex urban environments, with Baidu Maps providing precise localization. In Wuhan, over 400 RT6 vehicles operate 24/7 across half the city, handling 1,000 daily rides each, a scale unmatched by competitors.

Baidu

The platform's safety record, with insurance claims 14 times lower than human-driven taxis, stems from rigorous testing and redundant systems, as Baidu's CEO Robin Li stated at a Dubai summit in February 2025. Apollo 10.0, designed for global markets, enhances adaptability to diverse traffic patterns, a critical feature for Europe's varied road conditions. The system's cloud integration allows fleet-wide updates, ensuring continuous improvement, a capability Baidu plans to leverage in Switzerland and Turkey.

REGULATORY AND MARKET CHALLENGES

Europe's regulatory landscape poses a significant hurdle, with the European Union working toward harmonized standards for Level 4 autonomous vehicles by 2026. Switzerland, outside the EU, offers a more flexible testing ground, but Baidu must comply with strict safety and data privacy laws, including the Swiss Federal Act on Data Protection. Turkey's less defined regulations could ease entry, but the 2018 Uber protests, which led to a temporary ban, suggest potential pushback from local drivers. Baidu's experience in China, where it secured permits for fully driverless taxis in Wuhan and Chongqing in 2022, equips it to navigate these complexities, though local partnerships will be key.

Market dynamics add another layer, with Europe's EV sales reaching 15.2% of new cars in Q1 2025, signaling openness to tech-driven mobility. However, autonomous ride-hailing remains nascent, with Waymo and Uber planning European robotaxi deployments in 2026. Baidu's challenge is to adapt its AI to Europe's dense cities and diverse traffic, while addressing privacy concerns heightened by U.S. scrutiny of Chinese tech. Online discussions reflect cautious optimism, with some X users seeing Baidu as a disruptor, while others worry about regulatory delays.

COMPETITIVE LANDSCAPE IN AUTONOMOUS DRIVING

Baidu faces stiff competition from global players like Waymo, which operates 700 robotaxis in the U.S., and Uber, partnered with China's Momenta for a 2026 European launch. Tesla's planned robotaxi debut in Austin next month, leveraging its Full Self-Driving tech, adds pressure, with Musk claiming a $25 trillion market opportunity. In China, Baidu leads with over 400 vehicles in Wuhan, outpacing Pony.ai and XPeng, but domestic saturation is pushing firms abroad. The Middle East, where Baidu tested in Dubai, and Singapore, eyed for future expansion, are also battlegrounds, with Waymo and Momenta vying for share.

Baidu's edge lies in its AI and mapping expertise, with Apollo Go's data analytics offering cost efficiencies—rides in Wuhan cost 30% less than traditional taxis. Its global strategy avoids the U.S., where Chinese tech faces bans, focusing instead on Europe and Asia, where regulatory hurdles are navigable. The company's talks with PostAuto, despite no formal deal, show a pragmatic approach, mirroring General Dynamics' partnerships for robotics deployment.

FUTURE IMPLICATIONS

Baidu's European push is a bet on autonomous mobility's future, with robotaxis projected to

apollo GO
Autonomous Driving

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Every mile counts
to the future.

capture 10% of global ride-hailing by 2030. Success in Switzerland and Turkey could pave the way for broader EU trials, challenging Waymo's dominance and Uber's expansion.

The company's 8 million rides in China, with a fleet 10 times safer than human drivers, give it credibility, but scaling in Europe demands local trust and compliance.

Baidu's AI-driven approach, integrating Baidu Maps and cloud updates, positions it to adapt quickly, potentially reshaping urban transport in cities like Zurich or Istanbul.

The move comes as China's autonomous vehicle market, valued at $50 billion in 2024, faces saturation, pushing Baidu to seek growth abroad. Its experience in Wuhan, where 500 robotaxis serve half the city, offers lessons for Europe, but cultural and regulatory differences will test its agility.

With global competitors like Tesla and Uber accelerating, Baidu's European trials are a critical step toward a future where driverless vehicles will redefine how we move.

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ELON MUSK ANNOUNCES TESLA ROBOTAXIS AND HUMANOID ROBOTS FOR SAUDI ARABIA

Elon Musk, Tesla's CEO, revealed plans last week to bring the company's autonomous Robotaxis, dubbed Cybercabs, and Optimus humanoid robots to Saudi Arabia, marking a bold step in the kingdom's push for technological innovation. Speaking at the Saudi-US Investment Forum in Riyadh, Musk highlighted the move as a boost to Saudi Arabia's Vision 2030, a strategy to diversify its economy through cutting-edge tech.

For Saudi commuters, global investors, and tech enthusiasts, this announcement signals Tesla's ambition to reshape mobility and automation in a region eager to become a global tech hub, within

منتدى الاستثمار السعودي-الأمريكي
SAUDI-U.S. INVESTMENT FORUM
2025

a $2 trillion autonomous vehicle market and a $4.7 trillion humanoid robot sector.

The Cybercab, a sleek, self-driving taxi with no steering wheel, and Optimus, a versatile robot designed for tasks from factory work to personal assistance, aim to transform transportation and labor in the kingdom.

While no specific timeline was shared, Musk's vision aligns with Saudi Arabia's $600 billion investment in U.S. tech, announced during the forum.

TESLA'S VISION FOR SAUDI ARABIA

Musk's announcement came during a high-profile event attended by U.S. and Saudi leaders, where he emphasized the "exciting" potential of autonomous vehicles and robots in the kingdom.

The Cybercab, unveiled in October 2024 at Tesla's "We, Robot" event, is a two-seater priced under $30,000, designed for urban ride-hailing with gull-wing doors and advanced AI. Optimus, showcased dancing in a May 2025 video, stands 5 feet 8 inches and weighs 125 pounds, built for tasks like assembly or caregiving.

Musk likened the robots to Star Wars' C-3PO and R2-D2, suggesting they'll be personal assistants, with Tesla aiming to produce 10,000 to 12,000 units this year. Social media reactions on X called the move a "game-changer" for Saudi tech, though some questioned the timeline given Tesla's history of delays.

The plan aligns with Vision 2030, which seeks to reduce oil dependency through investments in AI, robotics, and smart cities like Neom.

Window
Help

Saudi Arabia's Public Investment Fund (PIF), managing $925 billion, has a history with Tesla, though past tensions over a 2018 "funding secured" deal have eased, as evidenced by Tesla's April 2025 launch in the kingdom featuring Optimus and Cybercab displays.

Musk's talks with Crown Prince Mohammed bin Salman underscored the kingdom's openness to Tesla's tech, with no firm rollout date but a clear intent to integrate these innovations into its mobility ecosystem.

TECHNOLOGY BEHIND CYBERCAB AND OPTIMUS

The Cybercab relies on Tesla's Full Self-Driving (FSD) software, powered by the Tensor G3 chipset and over 40 cameras, achieving Level 4 autonomy—full driving in specific zones without human input.

Unlike rivals using LiDAR, Tesla's vision-based system processes real-time data, with operating costs projected at $0.20 per mile, slashing ride-hailing expenses.

The vehicle, set for production in 2026, was demoed in Austin, Texas, in June 2025, with plans for 10 to 20 units initially, though Musk's claim of "millions" by mid-2026 has raised eyebrows due to past missed deadlines, like the 2020 robotaxi promise.

Optimus, driven by a neural network with 28 actuators and rare earth magnets, uses reinforcement learning for tasks like dancing or sorting blocks, as shown in 2023 demos.

Its sim-to-real training, where virtual practice translates to physical action, enabled last

week's cable-free dance, with a safety cable as backup. Tesla's cloud-connected fleet learning, updating all units instantly, mirrors its vehicle software, giving Optimus an edge over static robots like Unitree's G1.

The robot's versatility, from factory tasks to potential home use, targets a $4.7 trillion market by 2050, per Morgan Stanley.

SAUDI ARABIA'S REGULATORY AND MARKET LANDSCAPE

Saudi Arabia's Transport General Authority signed a 2024 memorandum with Uber to deploy autonomous vehicles by year-end, partnering with China's Pony.ai, indicating openness to robotaxis but also competition for Tesla.

The kingdom's 2023 regulatory framework for self-driving cars sets safety and testing standards, though specifics remain flexible, unlike the EU's stricter rules aiming for 2026 harmonization. Baidu's recent plan to test driverless taxis in Switzerland and Turkey suggests a regional race, with Saudi Arabia's framework potentially easing Cybercab trials.

The market is ripe, with Saudi Arabia's $600 billion U.S. investment signaling tech appetite, and Vision 2030's Neom project—a $500 billion smart city—offering a testbed for Cybercab and Optimus.

The 15.2% EV sales share in Q1 2025 mirrors Europe's, but its oil-driven economy demands careful integration of autonomous tech. Privacy concerns could apply to Tesla's data-heavy FSD, requiring compliance with local laws.

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COMPETITIVE DYNAMICS IN AUTONOMOUS AND ROBOTICS MARKETS

Baidu's Apollo Go, with 8 million rides in China, plans European trials, while Uber's Pony.ai partnership targets Saudi Arabia, challenging Tesla's Cybercab. Waymo, with 700 robotaxis in the U.S., leads globally, planning EU expansion in 2026, and Tesla's Austin pilot faces pressure to scale.

Optimus competes with Boston Dynamics' Atlas, which excels in dynamic tasks, and Unitree's $16,000 G1, but Tesla's cloud learning and planned 10,000-unit production give it scale potential. General Dynamics' 7,000 defense robots, built through staged development, offer a model for Tesla's iterative approach, though Optimus' broad ambitions add complexity.

Tesla's edge lies in its AI, with FSD and Optimus sharing neural networks honed by millions of vehicle miles. Baidu's AI and mapping rival this, but Tesla's vertical integration—building its own actuators and batteries—cuts costs.

Regulatory hurdles, like the National Highway Traffic Safety Administration's probes into FSD crashes, could slow Tesla, especially after Trump's tariff policies eased oversight.

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SPECIAL EDITION* Spirits were high at Apple's 'There's more in the making' event, which was held at the Howard Gilman Opera House in Brooklyn, New York on October 30. Hot off the heels of the launch of the new iPhone XS, XS Max and XR, Tim Cook and Co were ready to show off next-generation models of two of the company's most beloved products: the Mac, and the iPad. Introducing a whole host of new editions, this was an Apple event to

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App Support	support@applemagazine.com
Advertise & Promo	ads@applemagazine.com
Content Editor	editor@applemagazine.com

EXECUTIVE DIRECTOR

Ivan Castilho
Chief Executive Officer

ILLUSTRATION & DIAGRAMMING

Milene Mencari
Chief Production Officer

Natielly Dias
Graphic Design Producer

Saulo Cardoso
Graphic Design Producer

Claudio Magalhaes
Graphic Design Producer

MAGAZINE COVER & CONCEPT DESIGN

Ivan Castilho
Head of Design Conception

MAGAZINE EDITORIAL CONTENT

Benjamin Kerry
Chief Editor

WEBSITE EDITORIAL CONTENT

Gavin Lenaghan
Content Production & Review

WRITERS

Precise English Inc.
Benjamin Kerry
Gavin Lenaghan
Craig Lenaghan
Shanon O'Dovovan

COLUMNS

MOVIE | TV SHOW | MUSIC CONTENT PRODUCER
Gavin Lenaghan

FINANCE NEWS
Associated Press / Bloomberg

HEADLINE & EDITORIAL REVIEW

Gavin Lenaghan
Jack Crute

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Segolene Vincent
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